# HITACHI



## SERVICE MANUAL MANUEL D'ENTRETIEN WARTUNGSHANDBUCH

## **SM011**

42PD9700C 42PD9700U 42PD9R10 55PD9700C 55PD9700U

#### **CAUTION:**

Before servicing this chassis, it is important that the service technician read the "Safety Precautions" and "Product Safety Notices" in this service manual.

#### **ATTENTION:**

Avant d'effectuer l'entretien du châassis, le technicien doit lire les «Précautions de sécurité» et les «Notices de sécurité du produit» présentés dans le présent manuel.

#### **VORSICHT:**

Vor Öffnen des Gehäuses hat der Service-Ingenieur die "Sicherheitshinweise" und "Hinweise zur Produktsicherheit" in diesem Wartungshandbuch zu lesen.

Data contained within this Service manual is subject to alteration for improvement.

Les données fournies dans le présent manuel d'entretien peuvent faire l'objet de modifications en vue de perfectionner le produit.

Die in diesem Wartungshandbuch enthaltenen Spezifikationen können sich zwecks Verbesserungen ändern.

#### Servicing the 42PD9R10

Service the 42PD9R10 in the same way as when servicing 42PD9700U.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

PLASMA TV MAY 2006

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#### **CAUTION FOR SAFETY**

Please read this page before repair the monitor.

This page explains to following items for keep the safety of set and prevent to accident during repair work.

• We explain by symbol at happen the damage or injury when took wrong repair.

	This symbol means "possible to die or heavy damage"
<b>⚠</b> Caution	This symbol means "possible to damage or something will break"

• We made the symbol as below, which are kind of following items.

Ŵ	This symbol means "CAUTION"
A	This symbol means "POSSIBLE to
77	ELECTRIC SHOCK"

0	This symbol means "MUST"
$\Diamond$	This symbol means "DO NOT"

#### **MARNING**

#### ■ Should be follows to instructions.



We indicates to cabinet, chassis and parts by label, which are special attention part.

Please follow to note and [Safety Instructions] of User's Manual.

#### ■ Prevent the electric shock.

Please take care during working because monitor has high voltage part and power supply part.



Possible to die if you tough to these place by miss take.

Please disconnect power plug during overhaul, reassemble or change parts. You will die or take damage by electric shock if you touch to live part.

#### ■ Use recommended components.



Please use to same characteristic component, which is same as previous for your safety and keep reliability especially marked by  $\triangle$  in parts list and circuit diagram.

It is reason of electric shock or fire if you use non-recommended component.

#### ■ Should be kept same style of wiring or component.



Monitor uses tubes or tapes, which made by insulator, and some components are keep distance from surface of PCB for safety.

Internal leads kept from hot part or high voltage part by clamper or styling, so please return to original condition for prevent to electric shock or fire.

#### ■ Should be done safety check after finished.

Every part (removed screws, component and wiring) should be returned to previous condition.



Check around repair position for make damage by miss take and measure the insulated impedance by meg-ohm meter.

Confirm the value of impedance, that value is more than 4M ohm.

It is reason for electric shock or fire if that value is less than 4M ohm.

## ■ Nobody can check and repair to the code and combination circuit of HDCP.



Never remove the shield case, which is assembled to the code and combination circuit of HDCP.

#### **PRECAUTIONS**

#### How to clean the plasma screen panel of the monitor

Before cleaning the monitor, turn off the monitor and disconnect the power plug from the power outlet. To prevent scratching or damaging the plasma screen face, do not knock or rub the surface with sharp or hard objects. Clean the screen with a soft cloth moistened with warm water and dry with a soft cloth. If it is not enough, then use a cloth with mild detergent. Do not use harsh or abrasive cleaners.

#### How to clean the cabinet of the monitor

Use a soft cloth to clean the cabinet and control panel of the monitor. When excessively soiled dilute a neutral detergent in water, wet and wring out the soft cloth and afterward wipe with a dry soft cloth. Never use acid/alkaline detergent, alcoholic detergent, abrasive cleaner, powder soap, OA cleaner, car wax, glass cleaner, etc. especially because they would cause discoloration, scratches or cracks.

#### Information for users applicable in European Union countries



This symbol on the product or on its packaging means that your electrical and electronic equipment should be disposed at the end of life separately from your household wastes. There are separate collection systems for recycling in EU. For more information, please contact the local authority or the dealer where you purchased the product.

#### 1. Features

#### Large-screen, high-definition plasma display panel

The 42-inch colour plasma display panel, with a resolution of 1024 (H) x 1080 (V) pixels, creates a high-definition, large-screen(aspect ratio: 16:9) and low-profile flat display. Free from electromagnetic interferences from geomagnetic sources and ambient power lines, the panel produces high-quality display images free from color misconvergence and display distortion.

#### **High Performance Digital Processor**

A wide range of input signals can be handed,including composite, component,and HDMI.High Definition Digital Processor creates the fine-textured image with dynamic contrast. In addition, it corresponds to a broad array of personal computer signals, from 640 x 400 and 640 x 480 VGA to 1600 x 1200 UXGA.(Analog Input)

#### Easy-to-use remote control and on screen display system

The remote control included eases the work of setting display controls. Further, the on-screen display system, displays the status of signal reception and display control settings in an easy-to-view fashion.

#### **Connecting to an Audio Visual Device**

- Three Scart terminals\*1, composite/S terminal\*2, a component terminal\*3, and two HDMI terminals have been added. A composite video output terminal is also provided as a monitoring output.
- <sup>\*1</sup> AV1 scart applies to composite/ S-video AV2 and 3 scart applies to composite/ RGB
- \*2 AV5 composite/S-Video=Side Input
- <sup>\*3</sup> AV4 can be connected to the equipment with either component or composite Output.
- A wide range of devices can be also connected besides personal computers.

#### SD card slot installed

#### **Power Swivel Feature**

It allows turning the plasma display left or right within ±30 degree using the remote control.

#### **Digital Terrestrial Television Broadcasting**

Converting into digital signal enables to provide more channels and various useful features, such as Electric Programme Guide, Digital Teletext, and so on. Further, digital signal can create high quality picture.

Difference of broadcast signal method, divided into 42/55PD9700U and 42/55PD9700C according to country.



This logo indicates that the product is compliant with European Digital Broadcasting. DVB is a registered trademark of the DVB Project.



This logo indicates that the product is set up to view digital terrestrial TV. FREEVIEW and the FREEVIEW logo are trade marks of DVT Services Ltd and are used under license. FREEVIEW Logo © DTV Services Ltd 2002.

## digital 🚺

This logo indicates that the product will work after implementation of full digital switchover. The Digital logo is a Certification Mark.

## 2. Specifications

SPECIFICATION	l				
Panel Display dimensions		Approx. 42 inches (922 (H) x 524 (V) mm, diagonal 1059mm)	Approx. 55 inches (1230 (H) x 692 (V) mm, diagonal 1412mm)		
	Resolution	1024(H) x 1080 (V) pixels	1366 (H) x 768 (V) pixels		
Net dimensions		including Stand: 1134(W)x728(H)x350(D) mm excluding Stand: 1134(W)x648(H)x108(D) mm	including Stand: 1510(W)x933(H)x450(D) mm excluding Stand: 1510(W)x840(H)x105(D) mm		
Net weight		including Stand: 45.0kg including Stand: 73.5kg excluding Stand: 39.3kg excluding Stand: 62.0kg			
Ambient	Temperature	Operating: 5°C to 35°C, Storage: 0°C to 40°	C		
conditions	Relative humidity	Operating : 20% to 80%, Storage : 20% to 90	% (non-condensing)		
Power supply		AC100 - 240V, 50/60Hz			
Power consum	ption/ at standby	380W / <3W	490W / <3W		
Audio output		speaker total 36W	speaker total 36W		
(VIDEO input)					
Input terminals		S video input terminal (SCART) L/R audio input terminal (SCART) AV2•3: composite video input terminal (SCART) L/R audio input terminal (SCART) L/R audio input terminal (SCART) AV4: composite video input terminal (RCA) component video input terminal.(RCA) L/R audio input terminal (RCA) AV5: composite video input terminal (RCA) S video input terminal (Mini DIN) L/R audio input terminal (RCA) HDMI 1•2: HDMI input terminal	L/R audio input terminal (SCART)  AV2•3: composite video input terminal (SCART)  RGB video input terminal (SCART)  L/R audio input terminal (SCART)  AV4: composite video input terminal (RCA)  component video input terminal.(RCA)  L/R audio input terminal (RCA)  AV5: composite video input terminal (RCA)  S video input terminal (Mini DIN)  L/R audio input terminal (RCA)  HDMI 1•2: HDMI input terminal  Audio input terminal (3.5mm Stereo Mini Jack)		
Input signals		Composite video: PAL, SECAM, NTSC3.58, NTSC4.43, PAL60 Component video: 480i, 576i, 480p, 576p, 720p/50, 720p/60, 1080i/50, 1080i/60			
Output Signal		OUTPUT (MONITOR): composite video monitor-output terminal (RCA) OUTPUT (MONITOR): L/R audio monitor- output terminal (RCA) OUTPUT (HEADPHONE): L/R audio monitor- output terminal (Mini-pin) OUTPUT (SUB-WOOFER): Woofer output terminal AV1 : composite video output terminal (SCART) L/R audio output terminal (SCART) AV2•3 : composite video output terminal (SCART) L/R audio output terminal (SCART)			
(RF input)					
Input terminal / R	leceiving range	ANT : 75Ω Unbalanced / 44~870MHz			
RF Video System		PAL B, G, H / I / D, K SECAM B, G / K1 / L, L' / (D,K) DVB-T			
(RGB input)					
Input terminals		Analogue RGB input terminal (D-sub 15-pin) Audio input terminal (3.5mm Stereo Mini Jack)			
Input signals		0.7 V/1.0 Vp-p, analogue RGB (Recommende	ed Signal)		
Sync signals		H/V separate, TTL level [2K $\Omega$ ] H/V composite, TTL level [2K $\Omega$ ] Sync on green, 0.3 Vp-p [75 $\Omega$ ]			

<sup>•</sup> The monitor takes at least 30 minutes to attain the status of optimal picture quality. The SECAM D, K system might not be normally received, depending on the model.

#### 3. Service points

#### Lead free solder

This product uses lead free solder (unleaded) to help preserve the environment. Please read these instructions before attempting any soldering work.

**Caution:** Always wear safety glasses to prevent fumes or molten solder from getting into the eyes. Lead free solder can splatter at high temperatures (600°C).

#### ■ Lead free solder indicator

Printed circuit boards using lead free solder are engraved with an "F."

#### ■ Properties of lead free solder

The melting point of lead free solder is 40-50°C higher than leaded solder.

#### ■ Servicing solder

Solder with an alloy composition of Sn-3.0Ag-0.5Cu or Sn-0.7Cu is recommended.

Although servicing with leaded solder is possible, there are a few precautions that have to be taken. (Not taking these precautions may cause the solder to not harden properly, and lead to consequent malfunctions.)

#### Precautions when using leaded solder

- Remove all lead free solder from soldered joints when replacing components.
- If leaded solder should be added to existing lead free joints, mix in the leaded solder thoroughly after the lead free solder has been completely melted (do not apply the soldering iron without solder).

#### ■ Servicing soldering iron

A soldering iron with a temperature setting capability (temperature control function) is recommended. The melting point of lead free solder is higher than leaded solder. Use a soldering iron that maintains a high stable temperature (large heat capacity), and that allows temperature adjustment according to the part being serviced, to avoid poor servicing performance.

#### Recommended soldering iron:

• Soldering iron with temperature control function (temperature range: 320-450°C)

Recommended temperature range per part:

Part	Soldering iron temperature
Mounting (chips) on mounted PCB	320°C±30°C
Mounting (chips) on empty PCB	380°C±30°C
Chassis, metallic shield, etc.	420°C±30°C

#### The PCB assembles which use lead free solder

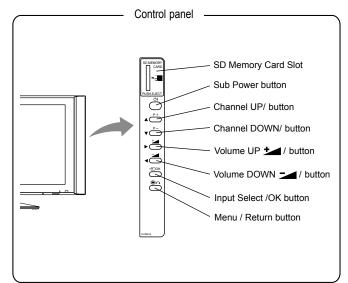
- (1) SUB-POWER PCB (Sub-power PCB, Filter PCB, Terminal PCB)
- 2 SOUND PCB (Audio PCB, Control PCB, Switch PCB)
- ③ FC PCF
- 4 MAIN PCB (Main PCB, LED PDP PCB, Swivel PCB)

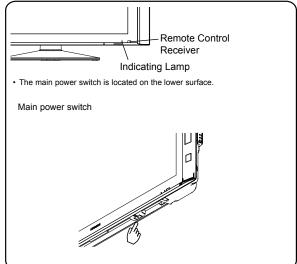
#### ■ Readjustment Power supply voltage

When a PANEL or a Power Unit is exchanged, power supply voltage needs to be adjusted. Please adjust to make the values of Va and Vs of as should on the label currently stuck on the panel back upper parts. Adjustment is performed by VR in the power supply unit. Please refer to the procedures of "Va" and "Vs" adjustments on page 32.

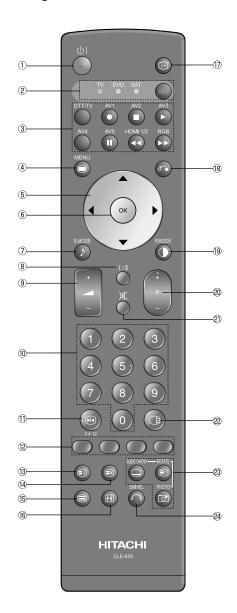
#### 4. Component names

#### [Main unit]





#### [Remote control]



Sub Power

Function Select (TV/DVD/SAT)

Press this button to select function mode indicating LED lamp.

Normally, select "TV".

Input Select/DVD Control/Photo Input Control

Press this button to change input mode.
In addition, you can use these buttons while operating the selected brand of DVD player or Photo Input function.

- Menu Cursor OK
- Sound Mode

Sound mode can be changed each time pressed in the following sequence. Movie→Music→ Speech→Favourite

- ® CHI/II
- This is exclusively for TV audio A2/NICAM mode.
- Volume Up/Down
- Programme Select
  Press these buttons to select a TV program

directly.

Treeze/Multi Mode [Hold]
Press this button to change the picture to freeze mode. Press it again to return to normal picture. In addition, during multi-picture mode, each time press this button, the picture is changed to 2, 4, and 12 multi mode. (Also, it holds the page in text mode.

- [Colour (Red, Green, Yellow, Blue)]
- [Index]

Time [Cancel]
Pressing this button can indicate the time by OnScreen display when receiving a TV programme

- TV/Text [TV⇔Text]
- This switches between the TV mode and the Teletext mode.

  ⑤ Zoom [Text⇔TV+Text]
  Press this button to change picture size.

- Recall Pressing this button shows the input signal status.
- ® Return
  - You can use this to return to the previous menu.
- (9) Picture Mode Picture Mode Picture mode can be changed each time pressed in the following sequence. Dynamic→Natural→ Cinema
- Channel Up/Down
- Mute Multi Picture

Press this button to change the picture to multi-picture mode. Press it again to return to normal

- Photo Input (Photo/Rotate/Slide Show) These buttons are to display and control the pictures from digital still camera or USB card
- SwiveI (with Desktop Stand) This function is to rotate TV. Select the degree of rotation with cursor key.

## 5. New adoption technology

## [System control micom I001(M30627)]

• Pin function table

No.	PIN NAME	I/O	Panel: PDP	FUNCTION
1	VREF (+5.0V)	_	PDP	5V
2	+5.0V	I	PDP	5V
3	AUDIO_SW1	I/O	PDP	Audio SW1
4	OSD_DATA	I/O	PDP	OSD DATA
5	OSD_CLK	I/O	PDP	OSD CLK
6	HP_VOL	I/O	PDP	Head Phone Volume
7	FUNC_1 EXT CONT 1	I/O	PDP	EXT CONT 1 Function1 EXTernal Control 1
8	DATA OUT(FC)	I/O	PDP	FC MicroComputer 3 Lines Bus Data Out /Media Data Out
9	DATA_IN(FC)	1/0	PDP	FC MicroComputer 3 Lines Bus Data In/ Media Data In
10	CLK(FC)	1/0	PDP	FC MicroComputer 3 Lines Bus Clock/ Media Clock
11	BL_INST	1/0	PDP	Black Insert On/Off for 32V LCD (37V=Low)
12	BL_BLINK	1/0	PDP	Backlight Blink On/Off for 32V LCD (37V=Low)
13	GND	1/0	PDP	GND
14		<del>                                     </del>	PDP	
$\vdash$	CNVSS(FLASH)	1 1/0		CNVSS(FLASH)
15	DSUB COMP	1/0	PDP	Sync Switching
16	RGBSW	I/O	PDP	Sync Switching
17	RESET		PDP	Reset
18	16MHz Oscillation	0	PDP	OSC-OUT
19	GND		PDP	GND
20	16MHz Oscillation		PDP	OSC-IN
21	+5.0V	I	PDP	5V
22	NMI(+5.0V)	I	PDP	5V PULL UP
23	RMCON	I/O	PDP	Receiving Remote Control Signal
24	NC	I/O	PDP	NC
25	V.FREQ_3	I/O	PDP	V.Frequency
26	SCV.SYNC	I/O	PDP	SUB_Y.SYNC (Composite)
27	IRQ(PM-IRQ)	I/O	PDP	PDP Control
28	MCV.SYNC	I/O	PDP	MAIN_Y.SYNC (Composite)
29	POWER_LED	I/O	PDP	L:Lighting (Power Save)
30	FUNC_2	I/O	PDP	EXT CONT 2 Function2 EXTernal Control 2
31	CEC_OUT	I/O	PDP	CEC OUT(CEC1)
32	H.FREQ_3	I/O	PDP	H.Frequency
33	PDWN	I/O	PDP	Panel LVDS
34	RXD2	I/O	PDP	RS-232C Communication
35	TXD2	I/O	PDP	RS-232C Communication
36	TXD1(RS232C/FLASH)	I/O	PDP	FLASH for Writing
37	,	ı	PDP	5V
38	RXD1(RS232C/FLASH)	I/O	PDP	FLASH for Writing
39	,	ı	PDP	GND
40	SCLK(FLASH)	1/0	PDP	FLASH for Writing
41	BUSY(FLASH)	1/0	PDP	FLASH for Writing
42	TXD0(DTT)	1/0	PDP	DTT
43	RXD0(DTT)	1/0	PDP	DTT
44	SDA4(panel)	1/0	PDP	PDP Communication(I2C Bus)
45	SCL4(panel)	1/0	PDP	PDP Communication(I2C Bus)
46	M_ENABLE	1/0	PDP	Media Enable
47	_	1/0	PDP	Media Clock
$\vdash$	M_SCLK	1/0	PDP	
48	M_SDA			Media Data
49	M_WAKEUP	1/0	PDP	Media Wakeup
50	PDPGO(PM_ON)	1/0	PDP	PDP Control/LCD Panel 12V/WVGA Power
51	CPUGO(PM_CPU)	1/0	PDP	PDP Control/Inverter Voltage
52	EPM (FLASH)	1/0	PDP	FLASH for Writing
53	VIDEO.DET_1	I/O	PDP	VIDEO Board Detection

No.	PIN NAME	I/O	Panel: PDP	FUNCTION
54	SCL1	1/0	PDP	I2C(To the Side of Main Board)
$\vdash$				FE/MSP3455or MSP3415G/SAA5361  I2C(To the Side of Main Board)
55	SDA1	I/O	PDP	FE/MSP3455or MSP3415G/SAA5361
56	HDMI-RESET	I/O	PDP	HDMI-Reset
57	HDMI-HPD_RESET	I/O	PDP	Hot Plug Detect Reset
58	SEL_0	I/O	PDP	FC Clock/Others SW
59	SEL_1	I/O	PDP	HDMI/DTT SW
60	TUNER.DET_1	I/O	PDP	TUNER Detection
61	CE (FLASH)	I/O	PDP	FLASH for Writing
62	STAND.CIR_DET	I/O	PDP	Stand Detection
63	SW_L_OUT	I/O	PDP	Swivel L Output
64	SW_R_OUT	I/O	PDP	Swivel R Output
65	M_SW	I/O	PDP	Bridge Media Circuit Connection Judgement Terminal
66	INITIALIZE	I/O	PDP	Memory Initial
67	BR_MUTE	I/O	PDP	Bridge Media Audio Mute
68	CK_SEL	I/O	PDP	Clock Selector
69	SCDT	I/O	PDP	HDMI Power Save for Return
70	CK_INV	I/O	PDP	Clock Invert
71	DVI-SW	I/O	PDP	DVI Control
72	CUR_PRTCT	I/O	PDP	Power Swivel Overcurrent Detection
73	SP_MUTE	I/O	PDP	SP Relay
74	AUDIO_MUTE	I/O	PDP	Audio MUTE
75	ASEL1	I/O	PDP	Audio Switching SW
76	ASEL2	I/O	PDP	Audio Switching SW
77	SDA2	I/O	PDP	I2C(TAS3103/TAS5508)
78	SCL2	I/O	PDP	I2C(TAS3103/TAS5508)
79	D-SUB COMP_SYNC.SW	I/O	PDP	D-SUB COMP for Sync Switching
80	BM_SW	I/O		BM Switching
81	RGB_BLK_2	1/0		RGB Blank 2
82	RGB_BLK_3	I/O		RGB Blank 3
83	AUDIO_RESET	I/O		Audio Circuit Reset
84	PDP_WVGA_LCD_SW_1	I/O		PDP/42WVGA/LCD Detection
85	+5.0V	- 1		
86	EDID_PROTECT_1	I/O	PDP	Memory Protect(Not necessary if power is available to use)
87	GND	ı	PDP	GND
88	WSS_1	I/O	PDP	SCART 1 Detection
89	WSS_2	I/O	PDP	SCART 2 Detection
90	WSS_3	I/O	PDP	SCART 3 Detection
91	TV.AFC(M)	I/O	PDP	Main Tuner Control (AFC)
92	TV.AFC(S)	I/O	PDP	Sub Tuner Control (AFC)
93	AUDIO_SW2	I/O	PDP	Audio SW2
94	EDID_PROTECT_2	I/O	PDP	Memory Protect(Not necessary if power is available to use)
95	HP_DETECT	I/O	PDP	HEAD PHONE DETECT
96	PDP_WVGA_LCD_SW_2	I/O	PDP	PDP/42WVGA/LCD Detect
97	INT_HDMI	I/O	PDP	INT(HDMI)
98	CEC_IN	I/O	PDP	CEC IN(CEC2)
99	COMP_SW	I/O	PDP	Component SW Main ⇔ DSUB
100	DEMP_OUT	I/O	PDP	De-emphasis Control Output for HDMI
101	NC	I/O		NC
102	SCL0	I/O	PDP	I <sup>2</sup> C(To the Side of Main Board) (TA1391FG/CXA2069/uPD64015/TB1274AF)
103	SDA0	I/O	PDP	I <sup>2</sup> C(To the Side of Main Board) (TA1391FG/CXA2069/uPD64015/TB1274AF)

No.	PIN NAME	I/O	Panel: PDP	FUNCTION
104	SCL3(EEPROM)	I/O	PDP	I <sup>2</sup> C(EEPROM)
105	SDA3(EEPROM)	I/O	PDP	I <sup>2</sup> C(EEPROM)
106	EPGGO	I/O	PDP	EPGGO
107	EXT_RESET	I/O	PDP	EXTERNAL RESET
108	OSD_CS	I/O	PDP	OSD CS
109	FC_ENABLE	I/O	PDP	FC MicroComputer 3 Lines Enable
110	V_P_DET_1	I/O	PDP	V_DET_1(Power Save Return)
111	V_P_DET_2	I/O	PDP	V_DET_2(Power Save Return) Power Delay Control
112	IRQ_DTT	I/O	PDP	DTT IRQ
113	DTT_POWER	I/O	PDP	DTT POWER
114	DISPEN	I/O	PDP	DISPEN/Backlight on
115	HDMI_A_SW	I/O	PDP	HDMI AUDIO SW
116	SCL5	I/O	PDP	I <sup>2</sup> C(Sil9021)
117	SDA5	I/O	PDP	I <sup>2</sup> C(Sil9021)
118	SCL6	I/O	PDP	I2C(To the Side of Sensor Board) (AD7414)
119	SDA6	I/O	PDP	I2C(To the Side of Sensor Board) (AD7414)
120	COLOR_SYS	I/O	PDP	Color System (Pull-in range Switching)
121	AD_KEY3	I/O	PDP	AD KEY3**
122	AD_KEY2	I/O	PDP	AD KEY2*
123	AD_KEY1	I/O	PDP	AD KEY1(Power)
124	TV.POWER	I/O	PDP	H:PowerON,L:(Standby,PowerSave)
125	DIP.DET	I/O	PDP	DIP DET
126	POWER_SAVE	I/O	PDP	L:Lighting(Standby,PowerSave), H:Lights-out
127	GND		PDP	GND
128	FAN_ALARM *1	I/O	PDP	FAN ALARM

## 6. Adjustment

#### • How to get to Adjustment mode

Using the R-side control buttons with the set turned off (standby) can activate it.

Press the SUB-POWER(⊕) button, INPUT SELECT(⊕) button and ▼ button at the same time, and hold for more than 5 seconds.

The set turns on in adjustment mode with OSD.

#### • Changing data and Selecting Adjustment code

When the set is in adjustment mode, the cursor  $\triangleleft$ ,  $\triangleright$ ,  $\triangle$ ,  $\triangledown$  and OK buttons of the remote control or R-side control buttons may be used as the adjustment keys.

- ▲, ▼ buttons are used for selecting adjustment code.
- ◀, ▶ buttons are used for changing data values.

OK button is used for confirming the data.

After finishing the necessary adjustment press MENU button. Adjustment mode is released and the set returns to normal condition.

#### • Memory Initialize operation

**NOTE:** The execution of this function returns the adjustment codes to the preset values, therefore, adjustment data will be lost.

#### **Procedure**

- (1) Enter Adjustment Mode.
- (2) Select MEMORY INIT adjustment code (No.898) and change the data value from 0 to 1.
- (3) Activate MEMORY INIT by pressing OK button.
- (4) Select No.712 and change data value from 1 to 0.
- (5) Check that the receiving channel goes to P1. Unit is set to preset values.

#### • How to check method of the use accumulation time for panel.

Select No. 894 of Service Adjustment Menu.

#### • Do the following when flicker is obvious.

This phenomenon depends on a contrast improvement function of a panel.

In the following condition, there is the case that this phenomenon occurs.

But outbreak frequency is very low.

- A still image of a single raster
- · A signal of the video specification gradation input

ADJ Items	ADJ No.	Init. Value	Max. value
PC mode	275	0	1
Dynamic mode	829	0	1
Normal mode	830	0	1
Cinema mode	831	0	1

## ● Service adjustment items by I<sup>2</sup>C-bus control (MAIN Part)

Adj.	Function		Max.	Init.	Device
No	ADJ. Items	Mode	value	Value	
0	SUB_CONTRAST (AV1)	Sub Composite mode	15	8	TB1274
	SUB_CONTRAST (AV2)	Sub Composite mode	15	8	TB1274
	SUB_CONTRAST (AV3)	Sub Composite mode	15	8	TB1274
3	SUB_CONTRAST (AV4)	Sub Composite mode	15	8	TB1274
4	SUB_CONTRAST (AV5)	Sub Composite mode	15	8	TB1274
5	SUB_CONTRAST (RF)	Sub	15	8	TB1274
	Sub Color	Sub	15	8	TB1274
7	TINT (RF)	Sub	63	29	TB1274
8	TINT (VIDEO)	Sub	63	29	TB1274
9	Reference Amplitude(RGB_AMP)	RF/VIDEO	254	127	FC
10	Reference Amplitude(RGB_AMP)	PC	254	127	FC
11	Reference Amplitude(RGB_AMP)	Multi Picture mode	254	130	FC
12	Display for Max. Amplitude Level	Main	-	-	FC
	Display for Max. Amplitude Level	Sub	-	-	FC
	Set Blue Gamma gain On/Off 0:Off, 1:On (For 55V)	For 55V	1	1	FC
	Contrast mode <dynamic> SW (TV) 0:Dynamic, 1:Dynamic+Auto</dynamic>	RF	1	1	FC
	APL Enhancer 0:OFF, 1:ON	For Dynamic mode	1	1	FC
	HDMI PC Function 0:OFF, 1:ON (for customer request)		1	0	
	PinP Function (for PC) 0:PinP, 1:Infomation1, 2:Infomaiton Split		2	0	FC
_	Black Level(RGB AMP)	RF/VIDEO	254	127	FC
	Black Level(RGB_AMP)	PC	254	127	FC
_	Black Level(RGB_AMP)	For USA NTSC/480i	254	127	FC
	Protect for Image Retention 0:Off, 1:7%, 2:14%, 3:21%, 4:AUTO	Dynamic mode	4	4	FC
	Protect for Image Retention 0:Off, 1:7%, 2:14%, 3:21%, 4:A0TO	Natural mode	4	4	FC
_	Protect for Image Retention 0:Off, 1:7%, 2:14%, 3:21%, 4:A0TO	· · · · · · · · · · · · · · · · · · ·	4	4	FC
		Cinema mode RF	7	7	FC
	YNR Input Level				
	YNR Input Level	VIDEO	7	7	FC
	YNR Input Level	Scart-RGB(50/60Hz)	7	7	FC
_	YNR Input Level	480i/576i	7	7	FC
	YNR Input Level	480p/576p	7	7	FC
	YNR Input Level for AV1-5 Mode	1080i-50/60/720p	7	7	FC
	YNR Input Level for →HDMI Mode	480i/480p/576i/576p/VGA	7	7	FC
	YNR Input Level for →HDMI Mode	1080i-50/60/720p	7	7	FC
_	CNR Input Level at Low level for AV1-5 Mode	RF/VIDEO	7	3	FC
	CNR Input Level at Low level for AV1-5 Mode	Scart-RGB(50/60Hz)	7	3	FC
	CNR Input Level at Low level for AV1-5 Mode	480i/576i	7	3	FC
	CNR Input Level at Low level for AV1-5 Mode	480p/576p	7	3	FC
	CNR Input Level at Low level for AV1-5 Mode	1080i-50/60/720p	7	3	FC
	CNR Input Level at Low level for →HDMI Mode	480i/480p/576i/576p/VGA	7	2	FC
	CNR Input Level at Low level for →HDMI Mode	1080i-50/60/720p	7	2	FC
	Main/Sub YFRNR Pass Level [MYNRP0]	NTSC/PAL/Multi	7	1	FC
41	[MYNRP5]	NTSC/PAL-VIDEO	7	0	FC
42		Scart-RGB(50/60Hz)	7	0	FC
43	[MYNRP6]	480i/576i (Except HDMI)	7	0	FC
44		480p/576p (Except HDMI)	7	0	FC
45	[MYNRP8]	1080i-50/60/720p (Except HDMI)	7	0	FC
46	[MYNRP6]	480i/576i (HDMI)	7	0	FC
47	[MYNRP7]	480p/576p (HDMI)	7	0	FC
48	[MYNRP8]	1080i-50/720p-50 (HDMI)	7	1	FC
49		1080i-60/720p-60 (HDMI)	7	0	FC
50	Main/Sub CFRNR Pass Level [MCNRP0]	NTSC/PAL/Multi	7	2	FC
51	[MCNRP5]	NTSC/PAL-VIDEO	7	2	FC
52	i i	Scart-RGB(50/60Hz)	7	2	FC
53		480i/576i	7	2	FC
54	<u> </u>	480p/576p	7	2	FC
55		1080i-50/60/720p	7	0	FC
	Vertical Enhancer Gain for B-Y/B, R-Y/R [CVEG0]	NTSC/PAL/480i/576i/Multi	15	15	FC
57	[CVEG1]	480p/576p/1080i-50/60/720p	15	9	FC
_	Vertical DSB Gain for B-Y/B, R-Y/R [CVDSBG0]	NTSC/PAL/480i/576i/Multi	3	0	FC
59		480p/576p/1080i-50/60/720p	3	0	FC
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Adj.	Function				Device
No	ADJ. Items	Mode	value	Value	
60	Vertical DSB coring for B-Y/B, R-Y/R [CVDSBC0]	NTSC/PAL/480i/576i/Multi	7	0	FC
61	[CVDSBC1]	480p/576p/1080i-50/60/720p	7	0	FC
	Vertical Enhancer CLIP 0:CTI for B-Y/B, R-Y/R [CVECLP0]	NTSC/PAL/480i/576i/Multi	1	0	FC
63	[CVECLP1]	480p/576p/1080i-50/60/720p	1	0	FC
64	Horizontal HPF Peak Frequency Switch for B-Y/B, R-Y/R [CHHPF0]	NTSC/PAL/480i/576i/Multi	3	2	FC
65	[CHHPF1]	480p/576p/1080i-50/60/720p	3	2	FC
	Horizontal Enhancer Gain for B-Y/B, R-Y/R [CHEG0]	NTSC/PAL/480i/576i/Multi	15	15	FC
67	[CHEG1]	480p/576p/1080i-50/60/720p	15	9	FC
	Horizontal DSB Gain for B-Y/B, R-Y/R [CHDSBG0]	NTSC/PAL/480i/576i/Multi	3	0	FC
69	[CHDSBG1]	480p/576p/1080i-50/60/720p	3	0	FC
70	Horizontal DSB Coring for B-Y/B, R-Y/R [CHDSBC0]	NTSC/PAL/480i/576i/Multi	7	0	FC
71	[CHDSBC1]	480p/576p/1080i-50/60/720p	7	0	FC
72	Horizontal Enhancer CLIP 0:CTI for B-Y/B, R-Y/R [CHECLP0]	NTSC/PAL/480i/576i/Multi	1	0	FC
73	[CHECLP1]	480p/576p/1080i-50/60/720p	1	0	FC
74	B-Y Clamp Offset	NTSC/PAL/480i/576i/480p/576p	255	128	FC
75	R-Y Clamp Offset	NTSC/PAL/480i/576i/480p/576p	255	128	FC
	B-Y Clamp Offset	1080i-50/60	255	128	FC
	R-Y Clamp Offset	1080i-50/60	255	128	FC
	B-Y Clamp Offset	720p	255	128	FC
	R-Y Clamp Offset	720p	255	128	FC
	B-Y Clamp Offset →[HDMI]	480i/576i/480p/576p/VGA	255	128	FC
	R-Y Clamp Offset →[HDMI]	480i/576i/480p/576p/VGA	255	128	FC
	B-Y Clamp Offset →[HDMI]	1080i-50/60	255	128	FC
	R-Y Clamp Offset →[HDMI]	1080i-50/60	255	128	FC
	B-Y Clamp Offset →[HDMI]	720p	255	128	FC
	R-Y Clamp Offset →[HDMI]	720p	255	128	FC
-	FC6 THROUGH 0:OFF, 1:THROUGH ON	120p	1	0	FC
	Dynamic Back Light Correction	For LCD	1 1	1	FC
	Dynamic Contrast Correction	I OI LOD	1 1	1	FC
	Histogram Color Management		<del>                                     </del>	1	FC
	Histogram Gradation Amp.	1	1 1	1	FC
	Histogram Enhancer		<del>                                     </del>	1	FC
	Dynamic Enhancer	+	+ +	1	FC
		DTT	255	96	FC FC
	Main H Sync Phase Adjustment (MHPHS) Sub H Sync Phase Adjustment (SHPHS)	DTT	255	122	FC FC
	P/N ID	Sub		-	TB1274
	Sharpness Gain(RF/NR)		1	0	
		Sub	15	2	TB1274
	Sharpness Gain(RF) BG/DK/I	Sub	15	8	TB1274
-	Sharpness Gain(RF) M	Sub	15	8	TB1274
	Sharpness Gain(RF) L	Sub	15		TB1274
	Sharpness Gain(RF) L'	Sub	15	8	TB1274
	Sharpness Gain(VIDEO) PAL	Sub	15	8	TB1274
	Sharpness Gain(VIDEO) NTSC3.58	Sub	15	8	TB1274
-	Sharpness Gain(VIDEO) SECAM,B/W	Sub	15	8	TB1274
	Sharpness Gain(VIDEO) NTSC4.43	Sub	15	8	TB1274
-	Sharpness Gain(VIDEO) N-PAL	Sub	15	8	TB1274
	Sharpness Gain(VIDEO) M-PAL	Sub	15	8	TB1274
	Sharpness Gain(S.VIDEO)	Sub	15	10	TB1274
-	Sharpness f0(RF) BG/DK/I	Sub	3	2	TB1274
	Sharpness f0(RF) M	Sub	3	2	TB1274
-	Sharpness f0(RF) L	Sub	3	2	TB1274
-	Sharpness f0(RF) L'	Sub	3	2	TB1274
	Sharpness f0(VIDEO) PAL	Sub	3	2	TB1274
	Sharpness f0(VIDEO) NTSC3.58	Sub	3	2	TB1274
	Sharpness f0(VIDEO) SECAM,B/W	Sub	3	2	TB1274
-	Sharpness f0(VIDEO) NTSC4.43	Sub	3	2	TB1274
116	Sharpness f0(VIDEO) N-PAL	Sub	3	2	TB1274
117	Sharpness f0(VIDEO) M-PAL	Sub	3	2	TB1274
	Y Out Level M (4.5)	Sub	63	19	TB1274
	Y Out Level B/G (5.5)	Sub	63	13	TB1274

Adj.	Fun	oction	Max.	Init.	Device
No	ADJ. Items	Mode	value	Value	
	Y Out Level D/K (6.5)	Sub	63	12	TB1274
	Y Out Level I (6.0)	Sub	63	13	TB1274
	Y Out Level L (6.5) Y Out Level L' (6.5)	Sub Sub	63 63	12 15	TB1274 TB1274
	Y Out Level (VIDEO)	Sub	63	13	TB1274
	Y Out Level (TEXT)	Sub	63	15	TB1274
	C Out Level M (4.5)	Sub	63	3	TB1274
	C Out Level B/G (5.5)	Sub	63	8	TB1274
	C Out Level D/K (6.5)	Sub	63	8	TB1274
	C Out Level I (6.0)	Sub	63	7	TB1274
130	C Out Level L (6.5)	Sub	63	7	TB1274
	C Out Level L' (6.5)	Sub	63	7	TB1274
132	C Out Level (VIDEO)	Sub	63	10	TB1274
	C Out Level (TEXT)	Sub	63	15	TB1274
	BPF_Q (4.43MHz)	Sub	3	3	TB1274
	BPF_f0 (4.43MHz)	Sub	3	1	TB1274
	C_TRAP_SW (COMB=OFF-PAL/NTSC4.43/NTSC	,	1	0	TB1274
137		Sub	1	0	TB1274
	SECAM D-Trap	Sub	1	1	TB1274
	FILTER SW(RF)	Sub	1	0	TB1274
	Y_DL (4.5MHz)	Sub	10	5	TB1274
	Y_DL (5.5MHz PAL/NTSC4.43)	Sub	10	2	TB1274
	Y_DL (5.5MHz SECAM)	Sub	10	0	TB1274
	Y_DL (6.0PAL/NTSC4.43)	Sub	10	7	TB1274
	Y_DL (6.0SECAM)	Sub	10	5	TB1274
	Y_DL (6.5PAL/NTSC4.43)	Sub	10 10	5 5	TB1274
	Y_DL (6.5SECAM) Y_DL (L)	Sub Sub	10	5	TB1274 TB1274
	Y DL (L')	Sub	10	5	TB1274
	Y_DL (VIDEO PAL/NTSC4.43)	Sub	10	5	TB1274
	Y DL (VIDEO SECAM)	Sub	10	5	TB1274
	Y DL (VIDEO NTSC)	Sub	10	5	TB1274
	NTSC Comb(Comb off)	Sub	1	1	TB1274
	Cb offset1	Sub	15	8	TB1274
	Cr offset1	Sub	15	8	TB1274
	MVM (VIDEO)		1	0	TB1274
156	AFC_GAIN (ÁV00)		3	0	TB1274
157	AFC_GAIN (AV1)		3	0	TB1274
	AFC_GAIN (AV2)		3	0	TB1274
	AFC_GAIN (AV3)		3	0	TB1274
	AFC_GAIN (AV4)		3	0	TB1274
	AFC_GAIN (AV5)		3	0	TB1274
	AFC_GAIN (Except AV00)		3	0	TB1274
	S_B-Y_ADJ	Sub	15	8	TB1274
	S_R-Y_ADJ	Sub	15	8	TB1274
	BELL_f0	Sub	1	0	TB1274
	S_INHBT		1	0	TB1274
	S_ID		1	0	TB1274
	S_GP		3	0	TB1274
	S_V_ID		1	0	TB1274
	BELL/HPF	Sub	3	3	TB1274
	HS Phase  Bandwidth 1	NTSC/PAL/480i/576i	3	1	TB1274 TA1391FG
	Bandwidth 1	480p/576p	3	2	
	Bandwidth 1	480p/576p 1080i-50/60/720p	3	0	TA1391FG TA1391FG
	Bandwidth 1	DTT	3	2	TA1391FG
	Bandwidth 2	NTSC/PAL/480i/576i	3	2	TA1391FG
	Bandwidth 2	480p/576p	3	2	TA1391FG
	Bandwidth 2	1080i-50/60/720p	3	0	TA1391FG
	Bandwidth 2	DTT	3	2	TA1391FG
119	Danawatti Z	PII			1710911 0

Adj.	Function		Max.	Init. Value	Device
INO	ADJ. Items	Mode	value	value	
180	Sub Contrast 1	Except 15kHz system (15kHz→#262)	15	0	TA1391FG
	Sub Contrast 1	DTT	15	0	TA1391FG
-	Sub Contrast 2		15	0	TA1391FG
	Sub Contrast 2	DTT	15	0	TA1391FG
-	Sub Color 1		15	0	TA1391FG
	Sub Color 1	DTT	15	0	TA1391FG
	Sub Color 2		15	0	TA1391FG
-	Sub Color 2	DTT	15	0	TA1391FG
	HV THRU 1	NTSC/PAL/480i/576i/480p/576p	1 1	0	TA1391FG
	HV THRU 1	1080i-50/60/720p	1 1	0	TA1391FG
	HV THRU 2	NTSC/PAL/480i/576i/480p/576p	1 1	0	TA1391FG
	HV THRU 2	1080i-50/60/720p	1	0	TA1391FG
	H_SEP 1	RF/VIDEO	1 1	0	TA1391FG
	H_SEP 1	480i/576i	1 1	0	TA1391FG
	H_SEP 1	480p/576p	1 1	0	TA1391FG
	H_SEP1 H_SEP1	1080i_50   1080i_60/720p	1 1	0	TA1391FG
	H_SEP1 H_SEP2		1 1	0	TA1391FG TA1391FG
	H_SEP 2 H_SEP 2	RF/VIDEO 480i/576i	1 1	0	
	н_SEP 2 Н_SEP 2	480p/576p		0	TA1391FG TA1391FG
	H_SEP 2 H_SEP 2	1080i 50		0	TA1391FG
	н_SEP 2 Н_SEP 2	1080i_50 1080i_60/720p	$\frac{1}{1}$	0	TA1391FG
	п_5EP 2 V_SEP 1			0	
	V_SEP 1 V SEP 1	480i/576i	$\frac{1}{1}$	0	TA1391FG TA1391FG
	V_SEP 1 V SEP 1	480r/576p	$\frac{1}{1}$	0	TA1391FG
	V_SEP 1 V_SEP 1	1080i 50		0	TA1391FG
	V_SEP 1 V_SEP 1	1080i_50 1080i_60/720p	<del>       </del>	0	TA1391FG
	V_SEP 1 V SEP 2	RF/VIDEO	<del>                                     </del>	0	TA1391FG
	V_SEP 2	480i/576i		0	TA1391FG
	V_SEP 2	480p/576p	$\frac{1}{1}$	0	TA1391FG
	V_SEP 2	1080i 50	$\frac{1}{1}$	0	TA1391FG
	V_SEP 2	1080i_50 1080i_60/720p	$\frac{1}{1}$	0	TA1391FG
	AFC MODE 1	RF	3	0	TA1391FG
-	AFC MODE 1	VIDEO	3	0	TA1391FG
	AFC MODE 2	RF	3	0	TA1391FG
	AFC MODE 2	VIDEO	3	0	TA1391FG
	N_LVL 1	RF	1 1	0	TA1391FG
	N LVL 1	VIDEO		0	TA1391FG
	N LVL 2	RF		0	TA1391FG
-	N LVL 2	VIDEO		0	TA1391FG
-	HD POSITION 1	480i/576i	15	0	TA1391FG
	HD POSITION 1	480p/576p	15	0	TA1391FG
222	HD POSITION 1	1080i 50	15	0	TA1391FG
223	HD POSITION 1	1080i 60/720p	15	0	TA1391FG
224	HD POSITION 2	480i/576i	15	0	TA1391FG
-	HD POSITION 2	480p/576p	15	0	TA1391FG
	HD POSITION 2	1080i 50	15	0	TA1391FG
-	HD POSITION 2	1080i_60/720p	15	0	TA1391FG
-	Y LPF 1	RF	1 1	1	TA1391FG
	Y LPF 1	VIDEO	1 1	1	TA1391FG
=	Y LPF 2	RF	1	1	TA1391FG
231	Y LPF 2	VIDEO	1	1	TA1391FG
-	Gain 1		1	1	TA1391FG
	Gain 2		1	1	TA1391FG
-	HD/VD OUTPUT LEVEL		1 1	1	TA1391FG
235	Video2-RGB MODE ON	For ASIA	1 1	0	-
236	Heat APC function (HAPC) available		1	1	PDP
237	γ-select(0:1.0, 1:2.2, 2:2.8)	RF/VIDEO	2	1	PDP
238	γ-select(0:1.0, 1:2.2, 2:2.8)	DSUB-RGB	2	1	PDP
220	Select for APC function		1 1	0	PDP

Adj.	Function		Max.	Init.	Device
No	ADJ. Items	Mode	value	Value	
240	CCFMD function	RF/VIDEO	1	0	PDP
241	CCFMD function	DSUB-RGB	1	0	PDP
242	NTSC/EBU(CCFORM)	SD(YCbCr)/Scart-RGB	1	0	PDP
243	NTSC/EBU(CCFORM)	HD(YPbPr)	1	0	PDP
244	NTSC/EBU(CCFORM)	DSUB-RGB	1	0	PDP
	Correction for Tracking (DCBON)	RF/VIDEO-Color Temp. Cool	1	1	PDP
246	Correction for Tracking (DCBON)	RF/VIDEO-Color Temp. Nor/War	1	1	PDP
	Correction for Tracking (DCBON)	DSUB-RGB	1	1	PDP
	Color Temp. Correction		3	2	PDP
	Brightness Limitted Function of PANEL [APSON]		1 1	1	PDP
	Dispersion Time of Sustain current 0:2 Times, 1:4 times	For Dynamic mode	1	0	PDP
	Dispersion Time of Sustain current 0:2 Times, 1:4 times	For Natural mode	1	1	PDP
	Dispersion Time of Sustain current 0:2 Times, 1:4 times	For Cinema mode	1	1	PDP
	Dispersion Time of Sustain current 0:2 Times, 1:4 times	For PC mode	1 1	1	PDP
	Dispersion Time of Sustain current 0:2 Times, 1:4 times	For PC-Movie mode	1	1	PDP
	Q mode 0:Freeze, 1:Move 1, 2:Move 2, 3:Movie3	For 50Hz[Dynamic] mode	3	2	PDP
	Q mode 0:Freeze, 1:Move 1, 2:Move 2, 3:Movie3  Q mode 0:Freeze, 1:Move 1, 2:Move 2, 3:Movie3	For 50Hz[Dynamic] mode	3	3	PDP
		For 50Hz[Natural] mode	3	3	PDP
	Q mode 0:Freeze, 1:Move 1, 2:Move 2, 3:Movie3				
	Q mode 0:Freeze, 1:Move 1, 2:Move 2, 3:Movie3	For 60Hz[Dynamic] mode	3	2	PDP
	Q mode 0:Freeze, 1:Move 1, 2:Move 2, 3:Movie3	For 60Hz[Natural] mode	3	3	PDP
	Q mode 0:Freeze, 1:Move 1, 2:Move 2, 3:Movie3	For 60Hz[Cinema] mode	3	3	PDP
	Q mode 0:Freeze, 1:Move 1, 2:Move 2, 3:Movie3	For 70Hz(PC)	3	0	PDP
	Sub Contrast 1	15kHz System	15	4	TA1391FG
	Vak OFfSet (Vak_OFS)		255	0	PDP
	Vak to Vra Parameter(VaktoVra)		255	1	PDP
265	Vsk to Vrs Parameter(VsktoVrs)		255	1	PDP
	VFB WAIT CounTer(CT_VWAIT)		255	60	PDP
267	VFB CORRection Counter(CT_VCORR)		255	15	PDP
268	Vsk OFFSet(Vsk_OFS)		255	0	PDP
269	Uvrs/Uvra RECALL(RCLVr)		1	0	PDP
270	C3OTON	1:ON, 0:OFF	1	1	PDP
271	C3OTLV	1:ON, 0:OFF	1	0	PDP
	SRV16	1:ON, 0:OFF	1	0	PDP
	WTI-VW	1:ON, 0:OFF	1 1	0	PDP
	WTI-WAVE	0:AUTO1, 1:AUTO2, 2:Fix	2	0	PDP
	SPD OFF 0:ON, 1:OFF	PC mode	1	0	PDP
	Vsk DETect First 2Bits(Vsk_DET)		-	-	PDP
	Vsk DETect Last 8Bits(Vsk_DET)		<del> </del>	-	PDP
	Vsk detect INIT. First 2Bits(Vsk_INIT)		-	-	PDP
	Vsk detect INIT. Last 8Bits(Vsk_INIT)		<del> </del>		PDP
	Vak DETect First 2Bits(Vak_DET)				PDP
	Vak DETect Last 8Bits(Vak_DET)		+ -		PDP
	DelTa Vrs value(DLT_Vrs)		+ -		PDP
	DeLTa VIS Value(DLT_VIS) DeLTa Vra value(DLT_VIa)		<del>  -</del>		PDP
	· -		-	-	
	Vak detect INIT. First 2Bits(Vak_INIT)		-	-	PDP
	Vak detect INIT. Last 8Bits(Vak_INIT)		-	-	PDP
	USER Vrs(Uvrs)		-	-	PDP
	USER Vra(Uvra)		-	-	PDP
	ISM Limit	Limit Value 0:1023 1:580	1	0	WVGA
	ISM Control for WVGA	For WVGA	1 -0	1	WVGA
	SWIVEL DEMO MODE ON		50	0	-
291	WVGA BRIGHTNESS	For WVGA	1	0	WVGA
	Black insert function 0:Not available, 1:Available	For LCD Dynamic mode or Day mode	1	0	M30627
	Dynamic Backlight function 0:No, 1:Yes	For LCD	1	1	M30627
	→HDMI Setup 0:None VGA/Others Yes, 1:All none 2:All have	→HDMI	2	0	M30627
295	DTT LOG ENABLE	For DTT	1	0	-
296	AUTO_FM/AM (D11-D8)	-	15	2	MSP3455G
	AUTO_FM/AM (D 7-D0)	-	254	189	MSP3455G
297	( C   C   1   1   1   C   1				
	A2_THRESHOLD (D11-D8)	-	15	0	MSP3455G

Adj.	Function		Max.	Init.	Device
No	ADJ. Items	Mode	∏ value	Value	
300	PRE_AM	Except 4.5MHz (Except Dual/ Stereo mode)	254	17	MSP3455G
301	VOL_SCART1 (D15-D8)	-	254	115	MSP3455G
302	VOL_SCART1 (D 7-D5)	-	7	0	MSP3455G
303	PRE_SCART	-	254	31	MSP3455G
304	PRE_FM	4.5MHz(JAPAN)	254	34	MSP3455G
305	PRE_FM	4.5MHz(Except BTSC-SAP mode)	254	32	MSP3455G
306	PRE_FM	4.5MHz(BTSC-SAP)	254	60	MSP3455G
	PRE_FM	4.5MHz(Except KOREA-Dual/ Stereo mode)	254	36	MSP3455G
308	PRE_FM	4.5MHz(KOREA-Dual/Stereo)	254	34	MSP3455G
309	PRE_FM	Except 4.5MHz(Except Dual/ Stereo mode)	254	17	MSP3455G
	PRE_FM	Except 4.5MHz(Dual/Stereo mode)	254	27	MSP3455G
	PRE_NICAM	-	254	57	MSP3455G
	CM_THRESHOLD (D15-D8)	-	254	0	MSP3455G
	CM_THRESHOLD (D7 -D0)	<u>-</u>	254	36	MSP3455G
	Sound Multiplex special operation (0:Normal 1:Korea) Set Stereo jugdment level at turn on mode of Sound Multiplex	For Korea special version	1 127	0 18	M30627 M30627
	Set Stereo jugament level at turn on mode of Sound Multiplex  Set Dual judgment level at turn on mode of Sound Multiplex	For Korea special version	128	18	M30627
	Set Stereo jugdment level at normal mode of Sound Multiplex	For Korea special version	120	18	M30627
	Set Dual judgment level at normal mode of Sound Multiplex	For Korea special version	128	18	M30627
	Set jugdment time for jugd to Multiplex at turn on mode	For Korea special version	255	117	M30627
320	Set Counting time for jugdmenet of normal mode	For Korea special version	255	10	M30627
321	Set jugdment time for jugd to Multiplex at normal mode	For Korea special version	255	64	M30627
	Select over modulated mode	For Korea special version	2	0	M30627
	Set over modulated mode 1	For Korea special version	255	18	MSP3455G
	Set over modulated mode 2	For Korea special version	255	32	MSP3455G
	TEXT H sync delay	-	127	0	SAA5361
326	TEXT V sync delay TEXT_H_POSITION	<u>-</u>	127 254	50 48	SAA5361 SAA5361
328	TEXT_V_POSITION	<u>-</u>	254	39	SAA5361 SAA5361
	Select for APC output [Except Europe model]	Main RF	2 2	1	SAA5361
	L PLL.GAIN	INGIT TO	1 1	Ö	TDA9885
221	HDMI EDID WRITE ENABLE	s	<del>   i</del>	Ö	M30627
332	HDMI Colorimetry Judgement 0:Signal Format Priority/1:AVI InfoFrame Priority	HDMI	1	0	HDMI
333	BPMA : Back Porch Mode, Field2 Position Adjustment		1	1	HDMI
334	TMDS Equalization Control (0:0xC3 1:0x0E 2:0x1E *** 16:0xE0)		16	13	HDMI
335	Select HDMI 1/2 at no using 0: Both no select,1:Select HDMI 1, 2: Select HDMI 2		2	0	HDMI
336	PRMB : preamble criteria		31	6	HDMI
	HDCP: HDCP enable criteria		31	12	HDMI
338	Picture Output Mode Select OUTTYP[1:0]		2	0	uPD64015
	Digital LPF Through Control LPFTHR[1:0]		3	0	uPD64015
	dummy		-	-	-
	ADC Sampling Delay Setting ADCKS[1:0]		3	3	uPD64015
	Clock Setting in Component Mode CPNFSC	-	1 15	1	uPD64015
	Color System Change Detection Time Setting DETOUT[3:0] Color System Judgement Time Setting DETTIM[3:0]		15 15	4	uPD64015 uPD64015
	Burst Lock Detection Variable Setting CLKVA		1 15	1	uPD64015 uPD64015
	Burst Lock Detection Variable Setting CLKVA  Burst Lock Detection Condition Setting CLKLL[6:0]		127	37	uPD64015
	ARI Gain Fine Adjustment R_GAIN[4:0]		31	16	uPD64015
	FHD Output Delay Adjustment FHDDL[5:0]	TEXT	63	37	uPD64015
	FHD Output Range Setting FHDWD[1:0]	TEXT	3	1	uPD64015
350	FVD Output Delay Adjustment1 FVDDL[2:0]	TEXT	7	7	uPD64015
351	FVD Output Delay Adjustment2 FVDHDL[2:0]	TEXT	7	1	uPD64015
	For Europe : Transmission of Station Name Check Command		2	0	SAA5361
	For Europe : Result of Station Name Check		<del>   -</del>	-	SAA5361
	Pedestal Level Correction Sensitivity Adjustment PEDIIRS2		1 1	0	uPD64015
	AGI Gain Fine Adjusstment G_GAIN[4:0]	1	31	16	uPD64015
	Jitter Filter Select FLTSEL[1:0]		3 31	0 16	uPD64015
358	ABI Gain Fine Adjustment B_GAIN[4:0] FB Signal Input Delay Adjustment 4BH:FBCNT[2:1] & 4CH: FBCNT[0]		7	0	uPD64015 uPD64015
350	Analog RGB Signal Input Delay Adjustment 4Ch:RGBCNT[2] &		7	0	uPD64015
	4Dh:4Ch:RGBCNT[1:0]		Ш .		2. 201010

Solicy   Contrast Gain Adjustment SelCNI[50]   63 32 uPD64015   32 sizulo Color Cr Gain Adjustment GBCNI[50]   63 32 uPD64015   63 32 uPD640	Adj. No			Max.	Init. Value	Device
381 SUB Color CD Gain Adjustment CBCAIN[5:0]		ADJ. Items	Mode			
382 SUR Color Cr Gain Adjustment CRCAIN[6:0]						
383/YGC Auto Mode Select YGCAUTO   1				+		
384PKC Select YGCDF	_	, , , , , , , , , , , , , , , , , , , ,		<del></del>		
308FYGC Control Mode Select1 YGCMVS						
366/YCC Control Mode Select Y FGANK\$[:0]   3   1   0   UPD64015   386/YCC Control Mode Select Y FGANK\$[:0]   31   9   UPD64015   386/YCC Control Mode Select Y FGANK\$[:0]   31   9   UPD64015   386/YCC Control Mode Select Y FGANK\$[:0]   3   1   UPD64015   370/YCC Control Mode Select Z MAXIIRS   1   0   UPD64015   370/YCC Control Mode Select Y GCINK\$[:0]   3   1   UPD64015   370/YCC Control Mode Select Y GCINK\$[:0]   3   1   UPD64015   372/YCT CONTROL Mode Select Y GCINK\$[:0]   3   1   UPD64015   372/YCT CONTROL MODE Select Y GCINK\$[:0]   RF   15   10   UPD64015   373/YCC Control Mode Select Y GCINK\$[:0]   RF   15   10   UPD64015   373/YCC Control Mode Select Y GCINK\$[:0]   RF   15   10   UPD64015   376/YCC Control Mode Select Y GCINK\$[:0]   RF   15   10   UPD64015   376/YCC Control Sync Signal Slice Level Setting SYLSE[3:0]   RF   15   10   UPD64015   376/YCC Control Sync Signal Slice Level Setting SYLSE[3:0]   RF   15   9   UPD64015   376/YCC Control Sync Signal Slice Level Setting for Progressive PSYLSE[3:0]   AV   15   9   UPD64015   376/YCC Control Sync Signal Detection Rape Setting VDETTO   1   0   UPD64015   376/YCC Control Sync Signal Detection Rape Setting VDETTO   1   0   UPD64015   386/YCC Control Sync Signal Detection Prevention Setting WDETG   1   1   UPD64015   386/YCC Control Sync Signal Detection Prevention Setting Sync Signal Detection Prevention Setting Sync Signal False Detection Prevention Setting Sync Signal Sync Signal False Detection Prevention Setting Sync Signal Sync Signal False Detection Prevention Setting Sync Sync Sync Sync Sync Sync Sync Sync				++		
387 Progressive Y Signal Gain Select YPGAINS[1:0]   3   1   UPD64015				<del>                                     </del>		
388/YCC Control Mode Select YGCAVAL(6:0)						
3398/YGC Control Mode Select2 MAXIRS				<del></del>		
371/VICC Control Mode Select PEDIRS[1:0]   3 1   UPD64015   372/VICTO Mode Select V VGCIRS[1:0]   3 1   UPD64015   372/VICTO Mode Select V VGCIRS[1:0]   3 1   UPD64015   373   375   376   377   376   377   37				<del></del>		
3717VCC Control Mode Select4 YGCJIRS[1:0]				<del>                                     </del>		
372 Vertical Sync Signal Slice Level Setting VSYLSE[3:0]   RF						
AV			DE			
375						
April				<del></del>		
AV	-					
378 Sync Slice Slice Level Setting for Progressive PSYLSE[3:0]   15   9   uPD64015   378 Sync Slice Slice Level Setting for Progressive PSYLSE[3:0]   15   9   uPD64015   379 Vertical Sync Signal Detection Range Setting VDETTG   1   1   uPD64015   360 Vertical Sync Signal Detection Correction Setting VDETG   1   1   uPD64015   360 Vertical Sync Signal False Detection Prevention Setting WasKHD   1   uPD64015   uPD64015   382 Vertical Sync Signal False Detection Prevention Setting   1   uPD64015   uPD64015   383 Noise Level Detection Characteristic Setting 1 NDUMODE   1   0   uPD64015   383 Noise Level Detection Characteristic Setting 2 NDUD2H   1   0   uPD64015   385 Noise Level Detection Characteristic Setting 2 NDUWSC[1:0]   3   1   uPD64015   366 Noise Level Detection Sensitivity Setting 1 NDUWSC[1:0]   3   1   uPD64015   366 Noise Level Detection Sensitivity Setting 2 NDUXSC[1:0]   3   1   uPD64015   386 Ine Comb Filter Operation Mode Select NSDS[1:0]   3   0   uPD64015   386 Ine Comb Filter Operation Mode Select NSDS[1:0]   3   0   uPD64015   388 Line Comb Select Sensitivity Setting 1 VCOMA[1:0]   3   0   uPD64015   389 S Line Comb Select Sensitivity Setting 1 VCOMA[1:0]   3   0   uPD64015   390 S Line Comb Select Sensitivity Setting 2 VCOMB[1:0]   3   0   uPD64015   390 S Line Comb Select Sensitivity Setting 2 VCOMB[1:0]   3   0   uPD64015   390 S Line Comb Select Sensitivity Setting 2 VCOMB[1:0]   3   0   uPD64015   390 S Line Comb Select Sensitivity Setting 2 VCOMB[1:0]   3   0   uPD64015   390 S Choma Output Frequency Characteristic Correction Select   uPD64015   390 S Choma Output Frequency Characteristic Correction Select   uPD64015   396 S Trap Filter Select (SECAM) YCSSY[2:0]   6   0   uPD64015   396 S Trap Filter Select (SECAM) YCSSY[2:0]   6   0   uPD64015   396 S Trap Filter Select (SECAM) YCSSY[2:0]   7   0   uPD64015   396 S Trap Filter Select (SECAM) YCSSY[2:0]   7   0   uPD64015   396 S Choma Output Frequency Characteristic Correction Select VDEACH   uPD64015   396 S Choma Output Frequency C						
378 Sync Silco Slice Level Setting for Progressive PSYLSE[3:0]   15   9   uPD64015   379 Vertical Sync Signal Detection Range Setting VDETTIM   1   1   uPD64015   380 Vertical Sync Signal Detection Correction Setting VDETG   1   1   uPD64015   381 Horizontal Sync Signal False Detection Prevention Setting WasHID   1   uPD64015   381 Horizontal Sync Signal False Detection Prevention Setting WasHID   1   uPD64015   382 Vertical Sync Output Switching for Digital RGB VDFB   1   0   uPD64015   382 Vertical Sync Output Switching for Digital RGB VDFB   1   0   uPD64015   384 Noise Level Detection Characteristic Setting 1 NDUMODE   1   0   uPD64015   384 Noise Level Detection Characteristic Setting 2 NDUZPH   1   0   uPD64015   385 Noise Level Detection Sensitivity Setting 1 NDUWSC[1:0]   3   1   uPD64015   385 Noise Level Detection Sensitivity Setting 1 NDUWSC[1:0]   3   1   uPD64015   387 S Dimentional YIC Separate Operation Mode Select NSDS[1:0]   3   0   uPD64015   387 S Dimentional YIC Separate Operation Mode Select NSDS[1:0]   3   0   uPD64015   389 S Line Comb Select Sensitivity Setting 1 NCOMA[1:0]   3   2   uPD64015   389 S Line Comb Select Sensitivity Setting 2 VCOMB[1:0]   3   2   uPD64015   391 Y Trap Filter Characteristic Select (NTSC, PAL) YCSHY[1:0]   3   0   uPD64015   392 C Separate Filter Characteristic Select (NTSC, PAL) YCSHY[1:0]   3   0   uPD64015   394 Chroma Output Frequency Characteristic Correction Select YCSCP[2:0]   4   0   uPD64015   394 Chroma Output Frequency Characteristic Correction Select   4   0   uPD64015   395 Vargate Palacteristic Select (NTSC, PAL) YCSHY[1:0]   3   0   uPD64015   396 Vartical Logical Comb Select Sensitivity Setting VLTYPE   1   1   uPD64015   396 Vartical Logical Comb Select Sensitivity Setting VLTYPE   1   1   uPD64015   396 Vartical Logical Comb Select Sensitivity Setting VLTYPE   1   1   uPD64015   396 Vartical Logical Comb Select Sensitivity Setting VLTYPE   1   1   uPD64015   396 Vartical Logical Comb Select Sensitivity Setting VLTYPE   1   1   uPD64015   39			T			
379 Vertical Sync Signal Detection Range Setting VDETG			480i/576i			
380   Vertical Sync Signal Detection Correction Setting   1   1   1   uPD64015						
38				<del>                                     </del>		
MacNation	380	Vertical Sync Signal Detection Correction Setting VDETG		1	1	uPD64015
383 Noise Level Detection Characteristic Setting1 NDUMODE		IMASKHU		1	1	uPD64015
384 Noise Level Detection Characteristic Setting? NDUDZH   3				1	0	
385Noise Level Detection Sensitivity Setting   NDUWSC[1:0]	383	Noise Level Detection Characteristic Setting1 NDUMODE		1	0	
386Noise Level Detection Sensitivity Setting2 NDUXSC[1:0]   3   1   uPD64015	384	Noise Level Detection Characteristic Setting2 NDUD2H		1	0	
3873   Dimentional Y/C Separate Operation Mode Select NSDS[1:0]   3   0   UPD64015   388   Line Comb Filter Operation Mode YCSV[1:0]   3   0   UPD64015   3893   Line Comb Select Sensitivity Setting 1 VCOMA[1:0]   3   2   UPD64015   3903   Line Comb Select Sensitivity Setting 2 VCOMB[1:0]   3   2   UPD64015   3903   Line Comb Select Sensitivity Setting 2 VCOMB[1:0]   3   0   UPD64015   3912   C Separate Filter Characteristic Select (NTSC, PAL) YCSHY[1:0]   3   0   UPD64015   392   C Separate Filter Characteristic Select (NTSC, PAL) YCSHY[1:0]   3   0   UPD64015   393   Chroma Output Frequency Characteristic Correction Select   4   0   UPD64015   0   0   UPD64015   0   0   UPD64015   0   0   UPD64015   0   0   0   UPD64015   0   U	385	Noise Level Detection Sensitivity Setting1 NDUWSC[1:0]		3	1	uPD64015
388   Line Comb Filter Operation Mode YCSV[1:0]   3   0   UPD64015   389   3   Line Comb Select Sensitivity Setting VCOMB[1:0]   3   2   UPD64015   390   3   2   UPD64015   391   3   2   UPD64015   391   3   2   UPD64015   391   3   2   UPD64015   391   3   3   2   UPD64015   391   3   3   3   UPD64015   392   3   3   3   UPD64015   392   392   3   3   3   UPD64015   393   3   Chroma Output Filter Processing Select (NTSC, PAL) YCSHC[1:0]   3   3   0   UPD64015   394   Chroma Output Firequency Characteristic Correction Select   4   0   UPD64015   395   Chroma Output Firequency Characteristic Correction Select   4   0   UPD64015   395   Chroma Output Firequency Characteristic Correction Select   4   0   UPD64015   395   Chroma Output Firequency Characteristic Correction Select   4   0   UPD64015   395   Chroma Output Firequency Characteristic Correction Select   4   0   UPD64015   395   Chroma Output Firequency Characteristic Correction Select   4   0   UPD64015   395   Chroma Output Firequency Characteristic Correction Select   4   0   UPD64015   395   Chroma Output Firequency Characteristic Correction Select   4   0   UPD64015   395   Chroma Output Firequency Characteristic Correction Select VAPCI   1   1   UPD64015   395   Chroma Output Firequency Characteristic Correction Select VAPCI   3   UPD64015   397   Chroma Output Firequency Characteristic Correction Select VAPCI   3   UPD64015   3	386	Noise Level Detection Sensitivity Setting2 NDUXSC[1:0]		3	1	uPD64015
389   3 Line Comb Select Sensitivity Setting 1 VCOMA[1:0]   3   2   uPD64015	387	3 Dimentional Y/C Separate Operation Mode Select NSDS[1:0]		3	0	uPD64015
390   3 Line Comb   Select   Sensitivity   Setting   2 VCOMB   1:0   3   2 UPD64015   391   Y Trap   Filter Characteristic   Select (INTSC, PAL)   YCSHY[1:0]   3   0 UPD64015   392   C Separate   Filter Characteristic   Select (INTSC, PAL)   YCSHC[1:0]   3   0 UPD64015   393   Chroma Output   Filter   Processing   Select   COBPFOFF   1   0 UPD64015   394   Chroma Output   Frequency   Characteristic   Correction   Select   4   0 UPD64015   395   Chroma Output   Frequency   Characteristic   Correction   Select   4   0 UPD64015   395   Y Trap   Filter   Select   SecAM   YCSSY[2:0]   6   0 UPD64015   396   Vertical   Logical   Comb   Select   Sensitivity   Setting   VLTYPE   1   1   UPD64015   396   Vertical   Logical   Comb   Select   Sensitivity   Setting   VLTYPE   1   1   UPD64015   397   C Separate   Filter   Select   SecAM   YCSSC[2:0]   6   0   UPD64015   398   Aperture   Select   VAPONV   1   1   UPD64015   399   VAperture   Gain   Select   VAPONV   1   1   UPD64015   399   VAperture   Gain   Select   VAPONV   7   5   UPD64015   400   VAPORTURE   Select   VA	388	Line Comb Filter Operation Mode YCSV[1:0]		3	0	uPD64015
391   Trap Filter Characteristic Select (NTSC, PAL) YCSHY[1:0]   3   0   uPD64015   392   C Separate Filter Characteristic Select (NTSC, PAL) YCSHC[1:0]   3   0   uPD64015   393   Chroma Output Filter Processing Select COBPFOFF   1   1   0   uPD64015   394   Chroma Output Frequency Characteristic Correction Select	389	3 Line Comb Select Sensitivity Setting1 VCOMA[1:0]		3	2	uPD64015
391   Trap Filter Characteristic Select (NTSC, PAL) YCSHY[1:0]   3   0   uPD64015   392   C Separate Filter Characteristic Select (NTSC, PAL) YCSHC[1:0]   3   0   uPD64015   393   Chroma Output Filter Processing Select COBPFOFF   1   1   0   uPD64015   394   Chroma Output Frequency Characteristic Correction Select	390	3 Line Comb Select Sensitivity Setting2 VCOMB[1:0]		3	2	uPD64015
393   Chroma Output Filter Processing Select COBPFOFF				3	0	uPD64015
393   Chroma Output Filter Processing Select COBPFOFF	392	C Separate Filter Characteristic Select (NTSC, PAL) YCSHC[1:0]		3	0	uPD64015
Chroma Output Frequency Characteristic Correction Select	393	Chroma Output Filter Processing Select COBPFOFF		1	0	uPD64015
395 Y Trap Filter Select (SECAM) YCSSY[2:0]	394	Chroma Output Frequency Characteristic Correction Select		4	0	uPD64015
396   Vertical Logical Comb Select Sensitivity Setting VLTYPE   1	395			6	0	uPD64015
397 C Separate Filter Select (SECAM) YCSSC[2:0]         6         0         uPD64015           398 Aperture Select VAPONV         1         1         1         uPD64015           399 V Aperture Gain Select VAPG[2;0]         RF         7         2         uPD64015           400         AV         7         5         uPD64015           401         480i/576i         7         3         uPD64015           402 V Aperture Convergent Point Setting VAPI[4:0]         31         20         uPD64015           403 PAL Color Phase Distortion Correction Select PALCFIL[1:0]         3         0         uPD64015           404 Y Signal 2fc Denoising Effect Select YCSY2F[1:0]         3         0         uPD64015           405 Y/C timing for L(6.5) system         RF Main         15         8         uPD64015           406 Trap Filter Gain Setting TRGAIN[2:0]         7         0         uPD64015           407 Trap Filter Setting TRPAL         1         0         uPD64015           408 Trap Filter Setting TRPAL         1         0         uPD64015           410 Motion Detection Mode Setting MSS[1:0]         3         0         uPD64015           411 Motion Detection Coring Setting DYCOR[3:0]         NTSC         15         2         uPD64015 <td></td> <td></td> <td></td> <td><del></del></td> <td>_</td> <td></td>				<del></del>	_	
398   Aperture Select VAPONV   RF				6	0	
399 V Aperture Gain Select VAPG[2;0]   RF	398	Aperture Select VAPONV		<del> </del>		
400			RF	7	2	
401						
402 V Aperture Convergent Point Setting VAPI[4:0]       31       20       uPD64015         403 PAL Color Phase Distortion Correction Select PALCFIL[1:0]       3       0       uPD64015         404 Y Signal 2fc Denoising Effect Select YCSY2F[1:0]       3       3       uPD64015         405 Y/C timing for L(6.5) system       RF Main       15       8       uPD64015         406 Trap Filter Select TRF[1:0]       3       0       uPD64015         407 Trap Filter Setting TRGAIN[2:0]       7       0       uPD64015         408 Trap Filter Setting TRPAL       1       0       uPD64015         409 Y/C timing for L'(6.5) system       RF Main       15       8       uPD64015         410 Motion Detection Mode Setting MSS[1:0]       3       0       uPD64015         411 Y Motion Detection Mode Setting MSS[1:0]       3       0       uPD64015         412 Y Motion Detection Coring Setting DYCOR[3:0]       NTSC       15       2       uPD64015         413 Y Motion Detection Gain Setting DYGAIN[3:0]       NTSC       15       9       uPD64015         414 Y Motion Detection Gain Setting DYGAIN[3:0]       Except NTSC mode       15       3       uPD64015         415 C Motion Detection Coring Setting DCCOR[3:0]       NTSC       15       3       uPD64015 <td>401</td> <td></td> <td>480i/576i</td> <td>7</td> <td></td> <td></td>	401		480i/576i	7		
403 PAL Color Phase Distortion Correction Select PALCFIL[1:0]         3         0         uPD64015           404 Y Signal 2fc Denoising Effect Select YCSY2F[1:0]         3         3         uPD64015           405 Y/C timing for L(6.5) system         RF Main         15         8         uPD64015           406 Trap Filter Select TRF[1:0]         3         0         uPD64015           407 Trap Filter Gain Setting TRGAIN[2:0]         7         0         uPD64015           408 Trap Filter Setting TRPAL         1         0         uPD64015           409 Y/C timing for L'(6.5) system         RF Main         15         8         uPD64015           410 Motion Detection Mode Setting MSS[1:0]         RF Main         15         8         uPD64015           411 Y Motion Detection Coring Setting DYCOR[3:0]         NTSC         15         2         uPD64015           412 Y Motion Detection Coring Setting DYGAIN[3:0]         NTSC         15         3         uPD64015           413 Y Motion Detection Gain Setting DYGAIN[3:0]         NTSC         15         9         uPD64015           415 C Motion Detection Coring Setting DCCOR[3:0]         NTSC         15         3         uPD64015           416 C Motion Detection Gain Setting DCGAIN[3:0]         Except NTSC mode         15         2	402	V Aperture Convergent Point Setting VAPI(4:0)		31		
404 Y Signal 2fc Denoising Effect Select YCSY2F[1:0]       3       3       uPD64015         405 Y/C timing for L(6.5) system       RF Main       15       8       uPD64015         406 Trap Filter Select TRF[1:0]       3       0       uPD64015         407 Trap Filter Setting TRGAIN[2:0]       7       0       uPD64015         408 Trap Filter Setting TRPAL       1       0       uPD64015         409 Y/C timing for L'(6.5) system       RF Main       15       8       uPD64015         410 Motion Detection Mode Setting MSS[1:0]       3       0       uPD64015         411 Y Motion Detection Coring Setting DYCOR[3:0]       NTSC       15       2       uPD64015         412 Y Motion Detection Gain Setting DYCOR[3:0]       Except NTSC mode       15       3       uPD64015         413 Y Motion Detection Gain Setting DYGAIN[3:0]       NTSC       15       9       uPD64015         414 Y Motion Detection Gain Setting DYGAIN[3:0]       Except NTSC mode       15       3       uPD64015         415 C Motion Detection Coring Setting DCCOR[3:0]       NTSC       15       3       uPD64015         416 C Motion Detection Gain Setting DCGAIN[3:0]       Except NTSC mode       15       2       uPD64015         418 C Motion Detection Gain Setting DCGAIN[3:0]				<del></del>		
405 Y/C timing for L(6.5) system						
406 Trap Filter Select TRF[1:0]         3         0         uPD64015           407 Trap Filter Gain Setting TRGAIN[2:0]         7         0         uPD64015           408 Trap Filter Setting TRPAL         1         0         uPD64015           409 Y/C timing for L'(6.5) system         RF Main         15         8         uPD64015           410 Motion Detection Mode Setting MSS[1:0]         3         0         uPD64015           411 Y Motion Detection Coring Setting DYCOR[3:0]         NTSC         15         2         uPD64015           412 Y Motion Detection Coring Setting DYCOR[3:0]         Except NTSC mode         15         3         uPD64015           413 Y Motion Detection Gain Setting DYGAIN[3:0]         NTSC         15         9         uPD64015           414 Y Motion Detection Gain Setting DYGAIN[3:0]         Except NTSC mode         15         9         uPD64015           415 C Motion Detection Coring Setting DCCOR[3:0]         NTSC         15         3         uPD64015           416 C Motion Detection Gain Setting DCCOR[3:0]         Except NTSC mode         15         2         uPD64015           418 C Motion Detection Gain Setting DCGAIN[3:0]         NTSC         15         6         uPD64015			RF Main			
407 Trap Filter Gain Setting TRGAIN[2:0]         7         0         uPD64015           408 Trap Filter Setting TRPAL         1         0         uPD64015           409 Y/C timing for L'(6.5) system         RF Main         15         8         uPD64015           410 Motion Detection Mode Setting MSS[1:0]         3         0         uPD64015           411 Y Motion Detection Coring Setting DYCOR[3:0]         NTSC         15         2         uPD64015           412 Y Motion Detection Coring Setting DYCOR[3:0]         Except NTSC mode         15         3         uPD64015           413 Y Motion Detection Gain Setting DYGAIN[3:0]         NTSC         15         9         uPD64015           414 Y Motion Detection Gain Setting DYGAIN[3:0]         Except NTSC mode         15         9         uPD64015           415 C Motion Detection Coring Setting DCCOR[3:0]         NTSC         15         3         uPD64015           416 C Motion Detection Gain Setting DCCOR[3:0]         Except NTSC mode         15         2         uPD64015           417 C Motion Detection Gain Setting DCGAIN[3:0]         NTSC         15         6         uPD64015           418 C Motion Detection Gain Setting DCGAIN[3:0]         Except NTSC mode         15         11         uPD64015			T T T T T T T T T T T T T T T T T T T			
408 Trap Filter Setting TRPAL       1       0       uPD64015         409 Y/C timing for L'(6.5) system       RF Main       15       8       uPD64015         410 Motion Detection Mode Setting MSS[1:0]       3       0       uPD64015         411 Y Motion Detection Coring Setting DYCOR[3:0]       NTSC       15       2       uPD64015         412 Y Motion Detection Coring Setting DYCOR[3:0]       Except NTSC mode       15       3       uPD64015         413 Y Motion Detection Gain Setting DYGAIN[3:0]       NTSC       15       9       uPD64015         414 Y Motion Detection Gain Setting DYGAIN[3:0]       Except NTSC mode       15       9       uPD64015         415 C Motion Detection Coring Setting DCCOR[3:0]       NTSC       15       3       uPD64015         416 C Motion Detection Coring Setting DCCOR[3:0]       Except NTSC mode       15       2       uPD64015         417 C Motion Detection Gain Setting DCGAIN[3:0]       NTSC       15       6       uPD64015         418 C Motion Detection Gain Setting DCGAIN[3:0]       Except NTSC mode       15       11       uPD64015	407	Tran Filter Gain Setting TRGAIN[2:0]		• • • • • • • • • • • • • • • • • • • •		
409 Y/C timing for L'(6.5) system         RF Main         15         8         uPD64015           410 Motion Detection Mode Setting MSS[1:0]         3         0         uPD64015           411 Y Motion Detection Coring Setting DYCOR[3:0]         NTSC         15         2         uPD64015           412 Y Motion Detection Coring Setting DYCOR[3:0]         Except NTSC mode         15         3         uPD64015           413 Y Motion Detection Gain Setting DYGAIN[3:0]         NTSC         15         9         uPD64015           414 Y Motion Detection Gain Setting DYGAIN[3:0]         Except NTSC mode         15         9         uPD64015           415 C Motion Detection Coring Setting DCCOR[3:0]         NTSC         15         3         uPD64015           416 C Motion Detection Coring Setting DCCOR[3:0]         Except NTSC mode         15         2         uPD64015           417 C Motion Detection Gain Setting DCGAIN[3:0]         NTSC         15         6         uPD64015           418 C Motion Detection Gain Setting DCGAIN[3:0]         Except NTSC mode         15         11         uPD64015				<del>                                     </del>		
410 Motion Detection Mode Setting MSS[1:0]30uPD64015411 Y Motion Detection Coring Setting DYCOR[3:0]NTSC152uPD64015412 Y Motion Detection Coring Setting DYCOR[3:0]Except NTSC mode153uPD64015413 Y Motion Detection Gain Setting DYGAIN[3:0]NTSC159uPD64015414 Y Motion Detection Gain Setting DYGAIN[3:0]Except NTSC mode159uPD64015415 C Motion Detection Coring Setting DCCOR[3:0]NTSC153uPD64015416 C Motion Detection Coring Setting DCCOR[3:0]Except NTSC mode152uPD64015417 C Motion Detection Gain Setting DCGAIN[3:0]NTSC156uPD64015418 C Motion Detection Gain Setting DCGAIN[3:0]Except NTSC mode1511uPD64015			RF Main			
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ADJ. Items	Adj.	Function		Max.	Init. Value	Device
421Molion Detection Characteristic TestS SELDFLE		ADJ. Items	Mode			
422Motion Detection Characteristic Test6 SELDTFL   1 0   UPD64015   1						
422 Color Demodulation Burst Gate Pulse Range Setting BOPZWID(3:0)	-					
424/Golor Demodulation Burst Gate Pulse Starfing Point Setting BGP2ST[3:0]         15         8         µPD64015           425 Demodulation Part Force Killer Setting KILON         1         0         µPD64015           426 Time Constant Setting for Color Demodulation APC APCGAIN[1:0]         3         1         µPD64015           428 Time Constant Setting for Color Demodulation APC APCGAIN[1:0]         15         8         µPD64015           428 SECAM Burst Pulse Position Correction S8CTDL[2:0]         17         7         µPD64015           428 SECAM System Judgement Setting PIDS TR[4:0]         31         1         µPD64015           435 SECAM System Judgement Strength Setting SDETSR[7:0]         255         188         µPD64015           435 SECAM System Judgement Strength Setting SDETSR[7:0]         3         2         µPD64015           435 SECAM System Judgement Strength Setting SDETSR[7:0]         3         2         µPD64015           435 SYMR Nonlinaer Filter Convergence Level Setting YMRCORE[2:0]         1         1         0         µPD64015           436 YNR Nonlinaer Filter Convergence Level Setting YMRMDGF         1         1         1         0         µPD64015           439 YNR Nonlinaer Filter Convergence Level Setting YMRMDGF         1         1         1         0         µPD64015           440 YMR Mot	-					
425   Emerophical Setting for Color Demodulation APC APGAIN[1:0]   3   1   1   1   1   1   1   1   1   1						
428 Time Constant Setting for Color Demodulation APC APCGAIN[1:0]   3   1   UPD64015   428 Control Characteristic Setting for Color Demodulation ACC ACCLIN[3:0]   7   7   UPD64015   428 SCAM Suster Fluse Position Correction SB(TDL[2:0]   7   7   UPD64015   439 SEAM Suster Fluse Position Correction SB(TDL[2:0]   7   7   UPD64015   430 SEAM Suster Fluse Position Correction SB(TDL[2:0]   31   4   UPD64015   430 SEAM Suster Fluse Position Correction SB(TDL[2:0]   31   4   UPD64015   432 SECAM System Judgement Strength Setting SIDSTR[4:0]   35   2   UPD64015   432 SECAM System Judgement Strength Setting SIDSTR[4:0]   3   2   UPD64015   432 SECAM System Judgement Strength Setting SIDSTR[4:0]   1   UPD64015   433 STRING SYSTEM SYSTE					_	
427 Time Constant Setting for Color Demodulation ACC ACCIAIN[1:0]         13         1         UpD64015           428 Control Characteristic Setting for Color Demodulation ACC ACCIAIN[3:0]         17         7         7         10 PD64015           429 SECAM Burst Pulse Position Correction. SBGTDL[2:0]         31         4         4 PD64015           430 SECAM Burst Pulse Position Correction. Strength Setting SIDSTR[4:0]         31         8         upD64015           431 SECAM Line Detection Strength Setting SIDSTR[4:0]         31         8         upD64015           432 SECAM System Judgement Strength Setting SIDSTR[4:0]         3         2         upD64015           433 SIDNR Mode Setting SMRODE[1:0]         3         2         upD64015           434 YNR Process Yes/NSTOP         1         1         1         upD64015           435 YNRL Process Yes/NSTOP         1         1         1         upD64015           437 YNR Nonlinear Filter Corregence Level Setting YNRLIMI[2:0]         7         3         2         upD64015           439 YNR Molinear Filter Limit Level Setting YNRLIMI[2:0]         15         6         upD64015           441 YNR Molino Detection between Frames Coring Setting YNRLIMI[2:0]         15         6         upD64015           441 YNR Molino Detection between Frames Setting YNRLIMI[2:0]         1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
428/Control Characteristic Setting for Color Demodulation ACC ACCLIM[3:0]         15         8         upp6ed15           428/SECAM Burst Pulse Position Correction SignTDL[2:0]         7         n 2006001           439/SECAM Sustern Judgement Strength Setting PIDSTR[4:0]         31         4         upp6ed15           431/SECAM Line Detection Strength Setting SIDSTR[4:0]         255         168         upp6ed15           433/SECAM System Judgement Strength Setting SIDSTR[7:0]         255         168         upp6ed15           433/SIDNI Mode Setting NRMODE[1:0]         3         2         upp6ed15           433/SYNR Moritioner Sites Side Stream Strea						
429SECAM Burst Pulse Position Correction SBGTDL[20]         37         7         0 p064015           430PAL Line Detection Strength Setting PIDSTR[40]         31         8         19064015           431SECAM Line Detection Strength Setting SIDSTR[40]         25         168         19064015           432SECAM System Judgement Strength Setting SDETSTR[70]         25         168         19064015           433SDNR Mode Setting NRMODE[1:0]         3         2         UP064015           434PNR Process Stop YNRSTOP         1         1         1         UP064015           435YNRN RONIInear Filter Convergence Level Setting YNRCORE[2:0]         7         3         2         UP064015           439YNR Molinear Filter Convergence Level Setting YNRLIM[2:0]         7         3         2         UP064015           439YNR Molinear Filter Limit Level Setting YNRLIM[2:0]         15         6         UP064015           449YNR Motion Detection between Frames Coring Setting YMMDCGR[3:0]         15         6         UP064015           441YNR Motion Detection between Frames Coring Setting YNRLIM[2:0]         1         1         1         UP064015           442CNR Process Stop CNRSTOP         1         1         1         UP064015           442CNR Process Stop CNRCNIC         1         1         1         UP06						
431 SECAM Line Detection Strength Setting SIDSTR[4:0]   285   688   UPD64015   432 SECAM System Judgement Strength Setting SDETSTR[7:0]   285   688   UPD64015   433 SDNR Mode Setting NRMODE[1:0]   1 0 UPD64015   434 YNR Process Yes/No YNRLPFON   1 1 0 UPD64015   434 YNR Process Yes/No YNRLPFON   1 1 0 UPD64015   434 YNR Process Yes/No YNRLPFON   1 1 0 UPD64015   436 YNR Nonlinear Filter Gain Setting YNRGAIN[1:0]   7 3 UPD64015   436 YNR Nonlinear Filter Gain Setting YNRGAIN[1:0]   7 3 UPD64015   436 YNR Nonlinear Filter Gain Setting YNRLPFON   7 3 UPD64015   438 YNR Nonlinear Filter Limit Level Setting YNRLP[2:0]   7 7 3 UPD64015   438 YNR Nonlinear Filter Limit Level Setting YNRLP[2:0]   7 7 3 UPD64015   439 YNR Molino Detection between Frames Coring Setting YMRD0CORE[3:0]   15 6 UPD64015   440 YNR Molion Detection between Frames Setting YNRMD0FF   1 1 UPD64015   441 YNR Molion Detection between Frames Setting YNRMD0FF   1 1 UPD64015   442 CNR Process Step CNRSTOP   1 1 UPD64015   442 CNR Process Step CNRSTOP   1 1 UPD64015   443 CNRLPF Process Yes/No CNRLPFON   1 1 UPD64015   443 CNRLPF Process Yes/No CNRLPFON   1 1 UPD64015   445 CNR Nonlinear Filter Gain Setting CNRCORE[2:0]   7 7 3 UPD64015   445 CNR Nonlinear Filter Convergence Level Setting CNRCORE[2:0]   7 7 3 UPD64015   445 CNR Molion Detection between Frames Coring Setting CNRLM[2:0]   7 7 3 UPD64015   446 CNR Nonlinear Filter Convergence Level Setting CNRCORE[2:0]   7 7 3 UPD64015   446 CNR Nonlinear Filter Convergence Level Setting CNRCORE[2:0]   7 7 3 UPD64015   446 CNR Nonlinear Filter Convergence Level Setting CNRLM[2:0]   7 7 3 UPD64015   446 CNR Nonlinear Filter Convergence Level Setting CNRLMDG[3:0]   15 1 UPD64015   446 CNR Nonlinear Filter Convergence Level Setting CNRLMDG[3:0]   15 1 UPD64015   446 CNR Nonlinear Filter Convergence Level Setting CNRLMDG[3:0]   15 1 UPD64015   446 CNR Nonlinear Filter Convergence Level Setting CNRLMDG[3:0]   15 1 UPD64015   446 CNR Nonlinear Filter Convergence Level Setting CNRLMDG[3:0]   15 1 UPD64015   44				7	7	
432SECAM System Judgement Strength Setting SDETSTR[7:0]	430	PAL Line Detection Strength Setting PIDSTR[4:0]		31	4	uPD64015
4333DNR Mode Setting NRMODE[1:0]         1         UPD64015           434 YNR Process Stop YNRTOPP         1         1         UPD64015           435 YNRLPF Process Yes/No YNRLPFON         1         1         0         UPD64015           436 YNR Nonlinear Filter Gain Setting YNRCAIN[1:0]         7         3         uPD64015           437 YNR Nonlinear Filter Convergence Level Setting YNRLIM[2:0]         7         3         uPD64015           438 YNR Montinear Filter Convergence Level Setting YNRLIM[2:0]         15         6         uPD64015           449 YNR Motion Detection between Frames Coring Setting YMRWDCG[3:0]         15         6         uPD64015           440 YNR Motion Detection between Frames Setting YNRMDGFF         1         1         uPD64015           441 YNR Motion Detection between Frames Setting YNRMDGFF         1         1         uPD64015           442 CNR Process Yes/No CNRLPFON         1         1         uPD64015           443 CNRLPF Process Yes/No CNRLPFON         1         1         uPD64015           444 CNR Nonlinear Filter Gain Setting CNRCORE[2:0]         7         3         uPD64015           445 CNR Motion Detection between Frames Coring Setting CNRLMCOG[3:0]         15         4         uPD64015           447 CNR Motion Detection between Frames Gain Setting CNRWDCG[3:0]	431	SECAM Line Detection Strength Setting SIDSTR[4:0]		31	8	uPD64015
434 YNR Process Stop YNRSTOP	432	SECAM System Judgement Strength Setting SDETSTR[7:0]		255	168	uPD64015
438 YNR Nonlinear Filter Gain Setting YNRGAIN[1:0]	433	3DNR Mode Setting NRMODE[1:0]		3	2	uPD64015
438 YNR Nonlinear Filter Canivergence Level Setting YNRCORE[2:0]				1	1	
438 YNR Nonlinear Filter Convergence Level Setting YNRCORE[2:0]				1		
438 NR Nonlinear Filter Limit Level Setting YNRLIM[2:0]	-	·				
439 YNF Motion Detection between Frames Cain Setting YMRWDCORE[3:0]						
440   NR Motion Detection between Frames Sating YNRM/DG[3:0]						
441 NR Motion Detection between Frames Setting YNRMDOFF						
442 CNR Process Yes/No CNRLPFON						
443  CNRLPF Process Yes/No CNRLPFON						
444 CNR Nonlinear Filter Gain Setting CNRGAIN[1:0]         3         3         JPD64015           445 CNR Nonlinear Filter Convergence Level Setting CNRLIM[2:0]         7         3         UPD64015           446 CNR Nonlinear Filter Limit Level Setting CNRLIM[2:0]         7         3         UPD64015           447 CNR Motion Detection between Frames Coring Setting CMVDCORE[3:0]         15         4         UPD64015           448 CNR Motion Detection between Frames Gain Setting CNRMVDG[0]         1         15         4         UPD64015           449 CNR Motion Detection between Frames Setting CNRMVDG[0]         1         1         1         UPD64015           450 Setup Level Correction Setting STNTSCM         RF         1         0         UPD64015           451         AV(Except 480i/576i)         1         0         UPD64015           452         AV(A80i/576i)         1         0         UPD64015           453 Setup Level Correction Setting STPALD[2:0]         RF         7         0         UPD64015           454         AV(Except 480i/576i)         7         0         UPD64015           455         AV(480i/576i)         7         0         UPD64015           456         AV(Except 480i/576i)         7         0         UPD64015	-	·				
445   CNR Nonlinear Filter Convergence Level Setting CNRCORE[2:0]						
446   CNR Nonlinear Filter Limit Level Setting CNRLIM[2:0]						
448   CNR Motion Detection between Frames Coring Setting CMVDCORE[3:0]   15   4   UPD64015     448   CNR Motion Detection between Frames Gain Setting CNRMVDG[3:0]   15   4   UPD64015     449   CNR Motion Detection between Frames Sealing CNRMVDGFF   1   1   UPD64015     450   Setup Level Correction Setting STNTSCM   RF   1   0   UPD64015     451   AV(Except 480i/576i)   1   0   UPD64015     452   AV(480i/576i)   1   0   UPD64015     453   Setup Level Correction Setting STPALD[2:0]   RF   7   0   UPD64015     454   AV(Except 480i/576i)   7   0   UPD64015     455   Setup Level Correction Setting STPALD[2:0]   RF   7   0   UPD64015     455   Setup Level Correction Setting STPALD[2:0]   RF   7   0   UPD64015     456   AV(Except 480i/576i)   7   0   UPD64015     457   RF (BG)   255   128   UPD64015     458   RF (BG)   255   128   UPD64015     458   RF (BG)   255   128   UPD64015     459   RF (BG)   255   128   UPD64015     459   RF (BG)   255   128   UPD64015     460   RF (LL')   255   128   UPD64015     461   AV(Except 480i/576i)   255   128   UPD64015     462   AV(Except 480i/576i)   255   128   UPD64015     463   Sub Color Adjustment for Cb SBCLRU[7:0]   RF   255   128   UPD64015     464   AV(Except 480i/576i)   255   128   UPD64015     465   AV(Except 480i/576i)   255   128   UPD64015     466   AV(Except 480i/576i)   255   128   UPD64015     467   AV(Except 480i/576i)   255   128   UPD64015     468   AV(Except 480i/576i)   255   128   UPD64015     469   Y Noise Coring1 Y CONR[3:0]   NTSC   10   0   UPD64015     470   Except NTSC   10   0   UPD64015     471   AV(Except NTSC   10   0   UPD64015     472   AV(BRITTER SIGNAl Noise Coring2 Y CORB[3:0]   NTSC   10   0   UPD64015     476   AV(BRITTER SIGNAl Noise Coring2 Control Y COREN   NTSC   10   0   UPD64015     476   AV(BRITTER SIGNAl Noise Coring2 Control Y COREN   NTSC   10   0   UPD64015     477   AV(BRITTER SIGNAl Noise Coring2 Control Y COREN   NTSC   10   0   UPD64015     478   Brightness Signal Noise Coring2 Control Y COREN   NTSC   10   0   UPD64015     4				<u> </u>		
448 CNR Motion Detection between Frames Gain Setting CNRMVDG[3:0]					_	
449 CNR Motion Detection between Frames Setting CNRMDOFF	-					
ASS						
AV(Except 480i/576i)			RF			
AV(480i/576i)	-	<b></b>				
A53   Setup Level Correction Setting2 STPALD[2:0]   RF						
AV(Except 480i/576i)   7   0   uPD64015	453				0	
AV(480i/576i)   7   0   uPD64015			AV(Except 480i/576i)	7	0	uPD64015
457         RF(BG)         255         128         uPD64015           458         RF(DK)         255         128         uPD64015           459         RF(I)         255         128         uPD64015           460         RF(LL')         255         128         uPD64015           461         AV(Except 480i/576i)         255         128         uPD64015           462         AV(480i/576i)         255         128         uPD64015           463         Sub Color Adjustment for Cb SBCLRU[7:0]         RF         255         128         uPD64015           465         AV(480i/576i)         255         128         uPD64015           465         AV(480i/576i)         255         128         uPD64015           465         AV(480i/576i)         255         128         uPD64015           466         Sub Color Adjustment for Cr SBCLRV[7:0]         RF         255         128         uPD64015           467         AV(Except 480i/576i)         255         128         uPD64015           468         AV(480i/576i)         255         128         uPD64015           469         Noise Coring1 YCONR[3:0]         NTSC         10         0         uPD64015	455			7	0	uPD64015
458       RF(DK)       255       128       uPD64015         459       RF(I)       255       128       uPD64015         460       RF(LL')       255       128       uPD64015         461       AV(Except 480i/576i)       255       128       uPD64015         462       AV(480i/576i)       255       128       uPD64015         463 Sub Color Adjustment for Cb SBCLRU[7:0]       RF       255       128       uPD64015         464       AV(Except 480i/576i)       255       128       uPD64015         465       AV(480i/576i)       255       128       uPD64015         466 Sub Color Adjustment for Cr SBCLRV[7:0]       RF       255       128       uPD64015         467       AV(480i/576i)       255       128       uPD64015         468       AV(480i/576i)       255       128       uPD64015         469 Y Noise Coring1 YCONR[3:0]       NTSC       10       0       uPD64015         470       Except NTSC       10       0       uPD64015         471       480i/576i       10       0       uPD64015         472 C Noise Coring1 CCONR[3:0]       NTSC       8       0       uPD64015         475	456	Sub Contrast Adjustment SBCNT[7:0]	RF(M)	255	128	uPD64015
RF(I)   255   128	457		RF(BG)	255	128	uPD64015
A60			RF(DK)			
AV(Except 480i/576i)   255   128	459		RF(I)	255	128	uPD64015
AV(480i/576i)   255   128	-		` ′			
463       Sub Color Adjustment for Cb SBCLRU[7:0]       RF       255       128       uPD64015         464       AV(Except 480i/576i)       255       128       uPD64015         465       AV(480i/576i)       255       128       uPD64015         466       Sub Color Adjustment for Cr SBCLRV[7:0]       RF       255       128       uPD64015         467       AV(Except 480i/576i)       255       128       uPD64015         468       AV(480i/576i)       255       128       uPD64015         469 Y Noise Coring1 YCONR[3:0]       NTSC       10       0       uPD64015         470       Except NTSC       10       0       uPD64015         471       480i/576i       10       0       uPD64015         472 C Noise Coring1 CCONR[3:0]       NTSC       8       0       uPD64015         473       Except NTSC       8       0       uPD64015         474       480i/576i       8       0       uPD64015         475 Brightness Signal Noise Coring2 YCORB[3:0]       NTSC       10       0       uPD64015         476       Except NTSC       10       0       uPD64015         478 Brightness Signal Noise Coring2 Control YCOREN       NTSC						
464       AV(Except 480i/576i)       255       128       uPD64015         465       AV(480i/576i)       255       128       uPD64015         466 Sub Color Adjustment for Cr SBCLRV[7:0]       RF       255       128       uPD64015         467       AV(Except 480i/576i)       255       128       uPD64015         468       AV(480i/576i)       255       128       uPD64015         469 Y Noise Coring1 YCONR[3:0]       NTSC       10       0       uPD64015         470       Except NTSC       10       0       uPD64015         471       480i/576i       10       0       uPD64015         472 C Noise Coring1 CCONR[3:0]       NTSC       8       0       uPD64015         473       Except NTSC       8       0       uPD64015         474       480i/576i       8       0       uPD64015         475 Brightness Signal Noise Coring2 YCORB[3:0]       NTSC       10       0       uPD64015         476       Except NTSC       10       0       uPD64015         478 Brightness Signal Noise Coring2 Control YCOREN       NTSC       1       1       uPD64015						
465       AV(480i/576i)       255       128       uPD64015         466 Sub Color Adjustment for Cr SBCLRV[7:0]       RF       255       128       uPD64015         467       AV(Except 480i/576i)       255       128       uPD64015         468       AV(480i/576i)       255       128       uPD64015         469 Y Noise Coring1 YCONR[3:0]       NTSC       10       0       uPD64015         470       Except NTSC       10       0       uPD64015         471       480i/576i       10       0       uPD64015         472 C Noise Coring1 CCONR[3:0]       NTSC       8       0       uPD64015         473       Except NTSC       8       4       uPD64015         474       480i/576i       8       0       uPD64015         475 Brightness Signal Noise Coring2 YCORB[3:0]       NTSC       10       0       uPD64015         476       Except NTSC       10       0       uPD64015         478 Brightness Signal Noise Coring2 Control YCOREN       NTSC       1       1       uPD64015	-					
466 Sub Color Adjustment for Cr SBCLRV[7:0]       RF       255       128       uPD64015         467       AV(Except 480i/576i)       255       128       uPD64015         468       AV(480i/576i)       255       128       uPD64015         469 Y Noise Coring1 YCONR[3:0]       NTSC       10       0       uPD64015         470       Except NTSC       10       0       uPD64015         471       480i/576i       10       0       uPD64015         472 C Noise Coring1 CCONR[3:0]       NTSC       8       0       uPD64015         473       Except NTSC       8       4       uPD64015         474       480i/576i       8       0       uPD64015         475 Brightness Signal Noise Coring2 YCORB[3:0]       NTSC       10       0       uPD64015         476       Except NTSC       10       0       uPD64015         477       480i/576i       10       0       uPD64015         478 Brightness Signal Noise Coring2 Control YCOREN       NTSC       1       1       uPD64015						
467       AV(Except 480i/576i)       255       128       uPD64015         468       AV(480i/576i)       255       128       uPD64015         469 Y Noise Coring1 YCONR[3:0]       NTSC       10       0       uPD64015         470       Except NTSC       10       0       uPD64015         471       480i/576i       10       0       uPD64015         472 C Noise Coring1 CCONR[3:0]       NTSC       8       0       uPD64015         473       Except NTSC       8       4       uPD64015         474       480i/576i       8       0       uPD64015         475 Brightness Signal Noise Coring2 YCORB[3:0]       NTSC       10       0       uPD64015         476       Except NTSC       10       0       uPD64015         477       480i/576i       10       0       uPD64015         478 Brightness Signal Noise Coring2 Control YCOREN       NTSC       1       1       uPD64015	-					
468       AV(480i/576i)       255       128       uPD64015         469 Y Noise Coring1 YCONR[3:0]       NTSC       10       0       uPD64015         470       Except NTSC       10       0       uPD64015         471       480i/576i       10       0       uPD64015         472 C Noise Coring1 CCONR[3:0]       NTSC       8       0       uPD64015         473       Except NTSC       8       4       uPD64015         474       480i/576i       8       0       uPD64015         475 Brightness Signal Noise Coring2 YCORB[3:0]       NTSC       10       0       uPD64015         476       Except NTSC       10       0       uPD64015         477       480i/576i       10       0       uPD64015         478 Brightness Signal Noise Coring2 Control YCOREN       NTSC       1       1       uPD64015		Sub Color Adjustment for Cr. SBULRV[7:0]				
469 Y Noise Coring1 YCONR[3:0]       NTSC       10       0       uPD64015         470       Except NTSC       10       0       uPD64015         471       480i/576i       10       0       uPD64015         472 C Noise Coring1 CCONR[3:0]       NTSC       8       0       uPD64015         473       Except NTSC       8       4       uPD64015         474       480i/576i       8       0       uPD64015         475 Brightness Signal Noise Coring2 YCORB[3:0]       NTSC       10       0       uPD64015         476       Except NTSC       10       0       uPD64015         477       480i/576i       10       0       uPD64015         478 Brightness Signal Noise Coring2 Control YCOREN       NTSC       1       1       uPD64015						
470       Except NTSC       10       0       uPD64015         471       480i/576i       10       0       uPD64015         472 C Noise Coring1 CCONR[3:0]       NTSC       8       0       uPD64015         473       Except NTSC       8       4       uPD64015         474       480i/576i       8       0       uPD64015         475 Brightness Signal Noise Coring2 YCORB[3:0]       NTSC       10       0       uPD64015         476       Except NTSC       10       0       uPD64015         477       480i/576i       10       0       uPD64015         478 Brightness Signal Noise Coring2 Control YCOREN       NTSC       1       1       uPD64015	-					
471       480i/576i       10       0       uPD64015         472 C Noise Coring1 CCONR[3:0]       NTSC       8       0       uPD64015         473       Except NTSC       8       4       uPD64015         474       480i/576i       8       0       uPD64015         475 Brightness Signal Noise Coring2 YCORB[3:0]       NTSC       10       0       uPD64015         476       Except NTSC       10       0       uPD64015         477       480i/576i       10       0       uPD64015         478 Brightness Signal Noise Coring2 Control YCOREN       NTSC       1       1       uPD64015						
472 C Noise Coring1 CCONR[3:0]       NTSC       8       0       uPD64015         473       Except NTSC       8       4       uPD64015         474       480i/576i       8       0       uPD64015         475 Brightness Signal Noise Coring2 YCORB[3:0]       NTSC       10       0       uPD64015         476       Except NTSC       10       0       uPD64015         477       480i/576i       10       0       uPD64015         478 Brightness Signal Noise Coring2 Control YCOREN       NTSC       1       1       uPD64015						
473       Except NTSC       8       4       uPD64015         474       480i/576i       8       0       uPD64015         475 Brightness Signal Noise Coring2 YCORB[3:0]       NTSC       10       0       uPD64015         476       Except NTSC       10       0       uPD64015         477       480i/576i       10       0       uPD64015         478 Brightness Signal Noise Coring2 Control YCOREN       NTSC       1       1       uPD64015						
474       480i/576i       8       0       uPD64015         475 Brightness Signal Noise Coring2 YCORB[3:0]       NTSC       10       0       uPD64015         476       Except NTSC       10       0       uPD64015         477       480i/576i       10       0       uPD64015         478 Brightness Signal Noise Coring2 Control YCOREN       NTSC       1       1       uPD64015						
475 Brightness Signal Noise Coring2 YCORB[3:0]       NTSC       10       0       uPD64015         476       Except NTSC       10       0       uPD64015         477       480i/576i       10       0       uPD64015         478 Brightness Signal Noise Coring2 Control YCOREN       NTSC       1       1       uPD64015	-					
476         Except NTSC         10         0         uPD64015           477         480i/576i         10         0         uPD64015           478 Brightness Signal Noise Coring2 Control YCOREN         NTSC         1         1         uPD64015	-					
477         480i/576i         10         0         uPD64015           478 Brightness Signal Noise Coring2 Control YCOREN         NTSC         1         1         uPD64015	-					
478 Brightness Signal Noise Coring2 Control YCOREN NTSC 1 1 uPD64015						
	-	Brightness Signal Noise Coring2 Control YCOREN				
	-	•		1	1	

Adj.	Function		Max.	Init.	Device
No	ADJ. Items	Mode	value	Value	
480		480i/576i	1	1	uPD64015
	Brightness Signal Noise Coring (highpass) YCORH[2:0]	NTSC	7	0	uPD64015
482		Except NTSC	7	0	uPD64015
483	0   0   0   0   0   0   0   0   0   0	480i/576i	7	0	uPD64015
	Color-Difference Signal Noise Coring2 CCORB[3:0]	NTSC	10	0	uPD64015
485		Except NTSC 480i/576i	10	0	uPD64015
486	Color Difference Signal Noise Coring Control CCODEN	NTSC	10	0	uPD64015
	Color-Difference Signal Noise Coring2 Control CCOREN		1	0	uPD64015
488		Except NTSC 480i/576i	н —	0	uPD64015
489	LTI Correction Amount Adjustment LTIGAIN[3:0]	RF(M)	1 15	0	uPD64015 uPD64015
490	LTI Correction Amount Adjustment LTIGAIN[5.0]	RF(Except M)	15	0	uPD64015 uPD64015
491		NTSC	15	0	uPD64015
492		Except NTSC	15	1	uPD64015
493		480i/576i	15	0	uPD64015
		RF(M) *In substitution for M Group	H -		
495	CTI Correction Amount Adjustment CTIGAIN[3:0]	Delay of Correction	15	0	uPD64015
496		RF(Except M)	15	0	uPD64015
497		NTSC	15	0	uPD64015
498		Except NTSC	15	7	uPD64015
499		480i/576i	15	0	uPD64015
500	Filter Setting for LTI_LTITAP[2:0]	RF(M)	7	2	uPD64015
501	[ .]	RF(Except M)	7	2	uPD64015
502		NTSC	7	2	uPD64015
503		Except NTSC	7	1	uPD64015
504		480i/576i	7	7	uPD64015
505	Coring Setting for LTI_LTICORE[3:0]	NTSC	11	3	uPD64015
506		Except NTSC	11	3	uPD64015
507		480i/576i	11	3	uPD64015
508	Filter Setting for CTI_CTITAP[2:0]	RF(M)	7	2	uPD64015
509		RF(Except M)	7	2	uPD64015
510		NTSC	7	2	uPD64015
511		Except NTSC	7	5	uPD64015
512		480i/576i	7	2	uPD64015
513	Coring Setting for CTI CTICORE[3:0]	RF(M)	9	3	uPD64015
514		RF(Except M)	9	3	uPD64015
515		NTSC	9	3	uPD64015
516		Except NTSC	9	3	uPD64015
517		480i/576i	9	3	uPD64015
518	Sharpness Adjustment SHPGAIN[7:0]	RF(M)	255	150	uPD64015
519		RF(BG)	255	150	uPD64015
520		RF(DK)	255	150	uPD64015
521		RF(I)	255	150	uPD64015
522		RF(LL')	255	150	uPD64015
523		TEXT	255	128	uPD64015
524		NTSC(Ex.S Input)→S:#692	255	150	uPD64015
525		Except NTSC(Ex.S Input)→S:#693	255	150	uPD64015
526		480i/576i →576i:#694	255	130	uPD64015
	Filter Setting for Sharpness SHPCHAR[2:0]	RF	6	3	uPD64015
528		NTSC	6	3	uPD64015
529		Except NTSC	6	3	uPD64015
530		TEXT	6	3	uPD64015
531		480i/576i	6	3	uPD64015
	Coring Setting for Sharpness SHPCORE[3:0]	RF	10	0	uPD64015
533		NTSC	10	0	uPD64015
534		Except NTSC	10	0	uPD64015
535		TEXT	10	0	uPD64015
536		480i/576i	10	0	uPD64015
	Luminance Adjustment (First 8Bits) BRIGHT[9:2]	NTSC mode	255	128	uPD64015
	Luminance Adjustment (First 8Bits) BRIGHT[9:2] Luminance Adjustment (First 8Bits) BRIGHT[9:2]	Except NTSC mode 480i/576i	255	128	uPD64015 uPD64015
		VIXIU/5 / bl	255	128	112116/11116

Adj.	Function		Max.	Init. Value	Device
	ADJ. Items	Mode	value	value	
	Luminance Adjustment (Last 2Bits) BRIGHT[1:0]	NTSC mode	3	0	uPD64015
	Luminance Adjustment (Last 2Bits) BRIGHT[1:0]	Except NTSC mode	3	0	uPD64015
	Luminance Adjustment (Last 2Bits) BRIGHT[1:0]	480i/576i	3	0	uPD64015
	R-Y Axis Adjustment OFRY[5:0]	NTSC	63	32	uPD64015
544		Except NTSC	63	32	uPD64015
	Color Adjustment COLORG[7:0]	RF(M)	255	115	uPD64015
546		RF(BG)	255	120	uPD64015
547		RF(DK)	255	120	uPD64015
548		RF(I)	255	120	uPD64015
549		RF(LL')	255	120	uPD64015
550		TEXT	255	128	uPD64015
551		NTSC	255	120	uPD64015
552		Except NTSC	255	123	uPD64015
553		480i/576i	255	128	uPD64015
	Tint Adjustment HUE[7:0]	RF(M)	255	150	uPD64015
555		RF(Except M)	255	140	uPD64015
556		NTSC(Ex.S Input)→S:#695	255	126	uPD64015
557		Except NTSC(Ex.S Input)→S:#696	255	128	uPD64015
558		480i	255	125	uPD64015
559		576i	255	130	uPD64015
560	Contrast Adjustment CONT[7:0]	NTSC	255	108	uPD64015
561		Except NTSC	255	108	uPD64015
562		480i/576i	255	114	uPD64015
563	APL Detection Line Setting APLWID[5:0]	50Hz	63	0	uPD64015
564		60Hz	63	0	uPD64015
565	APL Detection Time Constant Setting APLCOE[3:0]	50Hz	15	5	uPD64015
566		60Hz	15	5	uPD64015
	Direct Transmission Rate Correction Amount Setting DCREGAIN[3:0]		15	8	uPD64015
	Black Stretch Correction Amount Setting BLEXGAIN[5:0]		63	16	uPD64015
	Black Stretch Correction APL Adaptive Amount ABLEXST[3:0]		15	0	uPD64015
	Black Stretch Correction Operation Point Setting BLEXST[7:0]		255	0	uPD64015
571	White Peak Correction Amount Setting GAMGAIN[3:0]		15	0	uPD64015
	White Peak Correction APL Adaptive Amount Setting AGAMGAIN[3:0]		15	0	uPD64015
	White Peak Correction Operation Point Setting GAMST[7:0]		255	255	uPD64015
	Black Stretch Correction Setting BLEXCTL		1	0	uPD64015
	White Peak Correction Setting YGAMCTL		1	0	uPD64015
	ACL Correction Amount Setting ACLSEN[3:0]		15	0	uPD64015
	ACL Correction Operation Point Setting ACLST[7:0]		255	255	uPD64015
578	Image Blanking Setting YVBCTL		1	1	uPD64015
1	LPF Characteristic Setting for Color-Difference CR Signal CRLPF[1:0]		3	1	uPD64015
580	LPF Characteristic Setting for Color-Difference Cb Signal CBLPF[1:0]		3	1	uPD64015
	Burst Gate Pulse Range Setting BGPWD[3:0]	NTSC	15	8	uPD64015
582		Except NTSC	15	8	uPD64015
	Burst Gate Pulse Starting Point Setting BGPST[3:0]	NTSC	15	8	uPD64015
584		Except NTSC	15	8	uPD64015
	Killer Level Setting KILLV[3:0]	RF NTSC	15	8	uPD64015
586		RE PAL	15	8	uPD64015
587		RF SECAM	15	8	uPD64015
588		AV NTSC	15	3	uPD64015
589		AV PAL	15	3	uPD64015
590		AV SECAM	15	3	uPD64015
	Killer Level Setting for Color System Judgement KILLVCTL[3:0]	RF NTSC	15	9	uPD64015
592		RF PAL	15	9	uPD64015
593		RF SECAM	15	9	uPD64015
594		AV NTSC	15	9	uPD64015
595		AV PAL	15	9	uPD64015
596		AV SECAM	15	9	uPD64015
	Burst Lock PLL Gain Setting FSCFGAN		1	1	uPD64015
	Phase Error Detection Setting for Burst Lock FSCSYC		1	0	uPD64015
599	Burst Lock PLL Phase Error Detection Level Setting GAINSEL		1	0	uPD64015

A	F		N4-	l,14	
Adj. No	Function		Max. value	Init. Value	Device
	ADJ. Items	Mode			
	Vertical Sync Signal Pull-in Range Select VLIM	-	1	0	uPD64015
	V Counter Free Run Setting at No Signal Mode NSGVFRUN		1	1	uPD64015
	Line Lock Clock Free Run Setting at No Signal Mode NSGFRUN		1	0	uPD64015
	Vertical Sync Signal Correction VDCOR	DE	1	0	uPD64015 uPD64015
	Line Lock PLL Gain Setting HPLLG[4:0] Line Lock PLL Phase Detection Condition Setting HPLLSIG	RF	31	3 0	uPD64015
	Line Lock PLL Phase Detection Condition Setting HPLLSIG  Line Lock PLL Response Correction Setting HPLLH2	-	1	1	uPD64015
	Line Lock PLL Response Correction Coefficient1 HPLLH21[7:0]		255	32	uPD64015
	Line Lock PLL Response Correction Coefficient2 HPLLH22[7:0]		255	8	uPD64015
	PWM Select for Clamp PWMSEL[1:0]		3	3	uPD64015
610	Motion Detection Gain Setting, D2EGAIN[2:0]	NTSC	7	5	uPD64015
2	Motion Detection Coring Setting D2FCOR[6:0] (3D Comb.= for High/Low&OFF	1		_	
611	$\rightarrow$ 0)	NTSC mode	127	3	uPD64015
612		Except NTSC mode	127	3	uPD64015
613	Motion Detection Characteristic Test8 C2O	NTSC mode	1	0	uPD64015
614	Offset Substraction Value(NR=ON) for Sharpness Adjustment(#518~522)	RF (NR=ON)	63	50	uPD64015
	Motion Detection Characteristic Test9 MDMVD	NTSC mode	1	0	uPD64015
616	Motion Detection LPF Setting MVDLPFON		1	0	uPD64015
617	Motion Detection H Black Stretch Setting TESDOT[2:0]	NTSC	7	0	uPD64015
618		Except NTSC	7	0	uPD64015
	Y Motion Detection Gain Setting CLIPSELY[1:0]	NTSC	3	1	uPD64015
620		Except NTSC mode	3	2	uPD64015
	C Motion Detection Gain Setting CLIPSELC[1:0]	NTSC	3	3	uPD64015
622		Except NTSC mode	3	3	uPD64015
	Nonlinear Filter Setting1 NFP_3[3:0]	NTSC	15	3	uPD64015
624		Except NTSC mode	15	5	uPD64015
	Nonlinear Filter Setting2 NFP_7[3:0]	NTSC	15	7	uPD64015
626		Except NTSC mode	15	9	uPD64015
	Nonlinear Filter Setting3 NFP_B[3:0]	NTSC	15	10	uPD64015
628		Except NTSC mode	15	10	uPD64015
	Line Comb Filter Operation Mode YCSV_c[1:0]		3	0	uPD64015 uPD64015
	3 Line Comb Select Sensitivity Setting1 VCOMA_c[1:0] 3 Line Comb Select Sensitivity Setting2 VCOMB_c[1:0]		3	2	uPD64015
	BPF Select for Y/C Separate Chroma FIL15ON	NTSC	1	0	uPD64015
633		Except NTSC mode	1	1	uPD64015
	Logical Comb Bandwidth Setting for Brightness COMB_y	NTSC	1	0	uPD64015
635		Except NTSC mode	1 1	0	uPD64015
	Logical Comb Bandwidth Setting for Chroma COMB_c	NTSC	1 1	0	uPD64015
637	Edglod Golff Barid Width Gotting for Chronia Golff Ed	Except NTSC mode	1 1	0	uPD64015
	Vertical Logical Comb Select Sensitivity Setting VLTYPE c	NTSC	1	1	uPD64015
639	, , , ,	Except NTSC mode	1	1	uPD64015
	Logical Comb Characteristic Select SELU		1	1	uPD64015
641	Setting for 1 Line Chroma Action ONE_CRMA	NTSC	1	0	uPD64015
642		Except NTSC mode	1	1	uPD64015
	Setting for 1 Line Chroma at Abnormal Condition OCRENNST	NTSC	1	0	uPD64015
644	•	Except NTSC mode	1	0	uPD64015
	Narrow Band BPF Setting for Chroma FIL15NAR		1	1	uPD64015
	1 Line Chroma Detection Gain Setting V1PSEL[7:0]	PAL	255	64	uPD64015
647	·	NTSC	255	64	uPD64015
648		SECAM	255	64	uPD64015
649		PAL-M	255	64	uPD64015
650		PAN-N	255	64	uPD64015
	1 Line Chroma Coring Setting ONE_CROCOR[7:0]	PAL	255	64	uPD64015
652		NTSC	255	64	uPD64015
653		SECAM	255	64	uPD64015
654		PAL-M	255	64	uPD64015
655		PAN-N	255	64	uPD64015
-	SECAM Filter Setting SDIEF_SEL[1:0]	RF	3	0	uPD64015
657		AV	3	0	uPD64015
	Trap Filter Setting at Abnormal Condition TRENNST	RF	1	0	uPD64015
659		AV	1	0	uPD64015

Adj. No	Function ADJ. Items	Mode	Max. value	Init. Value	Device
660	Y/C timing for M(4.5) system	RF-Main	15	6	uPD64015
661	Y/C timing for (5.5MHz PAL/NTSC4.43) system	RF Main	15	8	uPD64015
	Y/C timing for (5.5MHz SECAM) system	RF Main	15	8	uPD64015
	Y/C timing for (6.0MHz PAL/NTSC4.43) system	RF Main	15	8	uPD64015
	Y/C timing for (6.0MHz SECAM) system	RF Main	15	8	uPD64015
	DAC Output Imapge Sync Comparison Setting DACLEVEL	- Train	1	0	uPD64015
	Blanking Period Level Setting INBLK50IRE		1 1	Ö	uPD64015
	Line Lock PLL Gain Setting HPLLG[4:0]	AV	31	6	uPD64015
	Motion Detection Gain Setting D2FGAIN[2:0]	Except NTSC mode	7	5	uPD64015
	Y/C timing for (6.5MHz PAL/NTSC4.43) system	RF Main	15	8	uPD64015
	HS Phase Setting for RGB Mix HSYNCDLY	TEXT-1 Picture	1 1	1	uPD64015
	Latter Part VS Phase Setting for RGB Mix VSDLY	TEXT-11 lotate	<del>                                     </del>	0	uPD64015
	SG Color Setting SGCOLOR[2:0]		1 7	0	uPD64015
672	SG Mode Setting 3GC0L0R[2:0] SG Mode Setting (0:OFF/1:Ramp/2:Raster/3:STEP/4:BAR[75%]/5:[100%])		5	0	uPD64015
		DE Main	15		
	Y/C timing for (6.5MHz SECAM) system	RF Main	1 15	8	uPD64015
6/5	SG Level Setting SGPEDLEV		1	0	uPD64015
	dummy	IE (NETO)	<del>  -</del>	-	-
	Motion Detection Characteristic Test8 C2O	Except NTSC mode	1	0	uPD64015
	Motion Detection Characteristic Test9 MDMVD	Except NTSC mode	1	0	uPD64015
	Color Processing Status SETCOLOR[3:0] (READ Value)		-	-	uPD64015
	Color System Detection Mode MODDET (READ Value)		-		uPD64015
	Composite V Judgement-Input (0:no signal/1:50Hz/2:60Hz)		-	-	uPD64015
682	Composite V Judgement-Result (1:50Hz/2:60Hz)		-	-	uPD64015
	No Signal Detection Characteristic Setting SIGDETLV		1	1	uPD64015
	Image Input Signal Status Setting SIGON		1	0	uPD64015
	Image Input Signal Status Setting SIGOFF		1	0	uPD64015
	Field Frequency Setting TV50F		1 1	0	uPD64015
	Field Frequency Setting TV60F		1 1	0	uPD64015
	50 Hz Image Signal Sub Carrier 504M		1 1	0	uPD64015
680	50 Hz Image Signal Sub Carrier 503M		1 1	0	uPD64015
009	COLOR SYSTEM Judgement Method (0:Normal/1:System1&2 Correction		+ '-		ur D04013
690	COLOR 515 FEM Judgement Method (0:Normal/1:5ystem r&2 Correction		1	0	uPD64015
	has no effect)		45		TD4074
691	Sharpness Gain(TEXT-2 pictures)	Sub NTSC(S Input) Separate from	15	0	TB1274
692	Sharpness Adjustment SHPGAIN[7:0]	#524	255	180	uPD64015
693		Except NTSC(S Input) Separate from #525	255	180	uPD64015
694		576i Separate from #526	255	130	uPD64015
695	Tint Adjustment HUE[7:0]	NTSC(S Input) Separate from #556	255	130	uPD64015
696		Except NTSC(S Input) Separate from #557	255	124	uPD64015
697	DCBLV (COOL)		1	1	PDP
	DCBLV (NORMAL/WARM/B&W)		1 1	0	PDP
	DCBLV (RGB)		1 1	0	PDP
	Mode display 0:Normal, 1:RF mode only, 2:All		2	0	M30627
	Horizontal Position of OSD		15	7	OSD
	Vertical Position of OSD		15	7	OSD
	Typical Value of Contrast OSD	DYNAMIC	31	31	M30627
	Temperature for Fun start (Temp High)	D LIAVIMIC	254	58	TEMP
	Temperature for Fun stop (Temp_Low)	+	254		TEMP
700	Display of internal temperature °C (Temperature)		125	55 -	TEMP
100	Display of internal temperature to (Temperature)	P.S/S.S	120	<del>-</del> -	I EIVIP
707	Power Save/Screen Saver On/Off Setting at Initialize, Reset and Shipping	0:Off/20m 1:On/Off 2:Off/Off	2	0	M30627
708	PC Power Save function (0:Impossible, 1:Possible)	2.0	1	1	M30627
709	Movement Amount of Image Retention Reduction Operation 0:±2pixel/1:±4pixel/2:±6pixel/3:±10pixel	Adjustment Value is available only during HD single picture mode.	3	0	FC
	480i,576i switch 0:uPD64015, 1:TA1391(Though)		1	0	TA1391FG
	Waite Time for POWER SAVE function (s)	VIDEO/PC	254	15	M30627
	BURN-IN enable/ disenable	0:Disenable, 1:Enable	1	1	M30627
		1	2	2	PDP
713	BURN-IN mode				
714	Recovery to an error of OSC frequency of Ceramic resonator for timer		62	34	M30627
714	BURN-IN mode  Recovery to an error of OSC frequency of Ceramic resonator for timer  EURO DK-SECAM MASK(V=60) 0:Normal 1:Mask(V=60)				M30627 -
714 715	Recovery to an error of OSC frequency of Ceramic resonator for timer	Main	62	34	M30627 - M30627
714 715 716	Recovery to an error of OSC frequency of Ceramic resonator for timer EURO DK-SECAM MASK(V=60) 0:Normal 1:Mask(V=60) Set Sound System at Auto mode of Sound Sys. (0:auto, 1:4.5MHz) Power condition at power save mode of PC mode	0:Keep last condition,	62 1	34 0	-
714 715 716 717	Recovery to an error of OSC frequency of Ceramic resonator for timer EURO DK-SECAM MASK(V=60) 0:Normal 1:Mask(V=60) Set Sound System at Auto mode of Sound Sys. (0:auto, 1:4.5MHz)		62 1 1	34 0 0	- M30627

ADJ. Hems  ADJ. Hems	Adj.	Function				Device	
721 Remote Function available O.NO, 1:YES	-00	ADJ. Items	Mode			140000=	
1   1   M30027				+	_		
722  Ferminal Mode Function available ONO (Available (1-Available RS23C							
728   Stanisman/Koreas/South America   0.0 Chers 1: Talwan/Koreas/South   1   0   M30627   725   America   10   0   M30627   725   America   10   0   M30627   725   M30627   727   M30627   728   M30627   M30627   728   M30627   728   M30627   M30627   728   M30627   M30627			Deage				
726 Inda   Made (No. 1, 1*Pe)	123	Set Taiwan/Koroa/South America 0:Others 1: Taiwan/Koroa/South	RS232C	1 1	1	IVI3U627	
726 Inda   Made (No. 1, 1*Pe)	724	America		1	0	M30627	
727 Initial Audio Level vol 20    30,0027   728 Initial Audio Level   63, 20  M30627   729 Size button available (0:No 1:Yes)   1				10	0	M30627	
728 Intial Audio Level	726	Hotel Mode(0:No, 1:Yes)		2	0	M30627	
1	727	Initial Audio Level available (0:No 1: Yes)		1	0	M30627	
1	728	Initial Audio Level		63	20	M30627	
731 Photo button available (0:No 1:Yes)	729	Size button available (0:No 1:Yes)		1	1	M30627	
732Set LCD Panel   1.1   0   M30627   733Analog Data (0:Keep EEPROM, 1:Not Keep to EEPROM)		, ,		1	1	M30627	
7334 Maximum Volume Limit	_	,		+		-	
734 Maximum Volume Limit	_		For LCD Panel		_		
735 Power Mode(CLast mode, 1:Pos1, 2:7.V1-6, 8-9:RGB1-2)				+	_		
739Channel Select (D'CCIR, 1:CHINA)							
1373Auf   Sound 4.5 (0'Korea, 1:BTSC, 2:Japan)   2   0   M30627				-			
1   1   M30627				+			
739Channel Presett (0.YESTEL, 1:GIFU, 2:HAMA, 3:HFDM, 4:AUSTRALIA)					_		
740 Australia Preset 0: None, 1: yes	_			+ -			
741   FREG 60Hz Force (0:None, 1:Yes)				_			
743 dummy	_	· •		+			
743 Summy				1	0	N30627	
1-00   PDP   1-0				<del>  -</del>	-		
745   CBUS Data/Clock Open(0:Close, 1:Open)			1:ON 0:OFF	1	0	PDP	
T46    Gray level of BM				+			
1477   Siplay of BM version     127   -     BM   748   TA1391: SYNC SW Change   0.:SYNC, 1:HDVD182   1   0   M30627   749   V Number of time on Judgement Conformance(M30625/TA1370)   -     31   2   M30627   750   V Number of time on Judgement Conformance(M30625/TA1370)   -       31   2   M30627   750   V Number of time on Judgement Conformance(TB1274)   -	_		Index				
748 TA1391: SYNC SW Change		•					
749  V Number of time on Judgement Conformance(M30625/TA1370)   31   2   M30627   750  V Number of time on Judgement Conformance(M30625/TA1370)   31   2   M30627   751  V Number of time on Judgement Conformance(TB1274)   31   2   M30627   752  Lower Limits value for Sync Detect of 2ms interval   For AFC at TV mode   254   25   M30627   753  Lower Limits value for Sync Detect of 2ms interval   For AFC at TV mode   254   25   M30627   754  Lower Limits value for Sync Detect of 2ms interval   For AUTO OFF at TV mode   254   25   M30627   755  Lower Limits value for Sync Detect of 2ms interval   For AUTO OFF at TV mode   254   25   M30627   755  Lower Limits value for Sync Detect of 2ms interval   For Free Running at AV mode   254   25   M30627   756  Lower Limits value for Sync Detect of 2ms interval   For Power Save at AV mode   254   25   M30627   757  Upper Limits value for Sync Detect of 2ms interval   For ACT at TV mode   254   40   M30627   758  Upper Limits Value for Sync Detect of 2ms interval   For ACT at TV mode   254   45   M30627   759  Upper Limits Value for Sync Detect of 2ms interval   For ACT at TV mode   254   45   M30627   759  Upper Limits Value for Sync Detect of 2ms interval   For AUTO OFF at TV mode   254   45   M30627   760  Upper Limits Value for Sync Detect of 2ms interval   For AUTO OFF at TV mode   254   45   M30627   761  Upper Limits Value for Sync Detect of 2ms interval   For Free Running at AV mode   254   45   M30627   762  COLOR SYSTEM CONTROL-MODE(0:BW, 2:3.58NTSC, 3:4.43NTSC, ***) Main     M30627   763  COLOR SYSTEM CONTROL-MODE(0:BW, 2:3.58NTSC, 3:4.43NTSC, ***) Main     M30627   763  COLOR SYSTEM CONTROL   (D15-D8)     M39627   764  M359 Read Data (CNTROL ) (D15-D8)     M5934556   779  M39 Read Data (STANDARD_RES) (D7-D0)     M5934556   779  M39 Read Data (STANDARD_RES) (D7-D0)     M5934556   779  M39 Read Data (STANDARD_RES) (D7-D0)     M5934556   775  M391FG Read Data (STANDARD_RES) (D7-D0)     TA1391FG   775  TA1391FG Read Data (Oth)		1 7	0:SYNC, 1:HDVD1&2	1	0	M30627	
751   V Number of time on Judgement Conformance(TB1274)   -     31   2     M30627     M30627   M3062			-	31	2	M30627	
Total   For AFC at TV mode   254   25   M30627	750	f V Number of time on Judgement Conformance(M30625/TA1370)	-	31	2	M30627	
For Free Running at TV mode   254   30   M30627	751	f V Number of time on Judgement Conformance(TB1274)	-	31	2	M30627	
T54  Lower Limits value for Sync Detect of 2ms interval   For AUTO OFF at TV mode   254   25   M30627	752	Lower Limits value for Sync Detect of 2ms interval	For AFC at TV mode	254	25	M30627	
Total   For Free Running at AV mode   254   30   M30627			For Free Running at TV mode	254	30	M30627	
T56   Lower Limits value for Sync Detect of 2ms interval   For Power Save at AV mode   254   25   M30627   757   Upper Limits Value for Sync Detect of 2ms interval   For AFC at TV mode   254   40   M30627   758   Upper Limits Value for Sync Detect of 2ms interval   For Free Running at TV mode   254   45   M30627   759   Upper Limits Value for Sync Detect of 2ms interval   For AFTO OFF at TV mode   254   45   M30627   760   Upper Limits Value for Sync Detect of 2ms interval   For AFTO OFF at TV mode   254   45   M30627   761   Upper Limits Value for Sync Detect of 2ms interval   For Power Save at AV mode   254   45   M30627   762   COLOR SYSTEM CONTROL-MODE(0:BW, 2:3.58NTSC, 3:4.43NTSC, ***)   Main   -	754	Lower Limits value for Sync Detect of 2ms interval				M30627	
757   Upper Limits Value for Sync Detect of 2ms interval   For AFC at TV mode   254   40   M30627   758   Upper Limits Value for Sync Detect of 2ms interval   For Free Running at TV mode   254   45   M30627   759   Upper Limits Value for Sync Detect of 2ms interval   For AUTO OFF at TV mode   254   35   M30627   760   Upper Limits Value for Sync Detect of 2ms interval   For AUTO OFF at TV mode   254   45   M30627   760   Upper Limits Value for Sync Detect of 2ms interval   For Free Running at AV mode   254   45   M30627   761   Upper Limits Value for Sync Detect of 2ms interval   For Power Save at AV mode   254   45   M30627   762   COLOR SYSTEM CONTROL-MODE(0:BW, 2:3.58NTSC, 3:4.43NTSC, ****) Main   -	_	,	· ·	254	30	M30627	
T58   Upper Limits Value for Sync Detect of 2ms interval   For Free Running at TV mode   254   45   M30627		· · · · · · · · · · · · · · · · · · ·					
T59   Upper Limits Value for Sync Detect of 2ms interval   For AUTO OFF at TV mode   254   35   M30627		•	•			M30627	
Tell							
761 Upper Limits Value for Sync Detect of 2ms interval         For Power Save at AV mode         254         45         M30627           762 COLOR SYSTEM CONTROL-MODE(0:BW, 2:3.58NTSC, 3:4.43NTSC, ***) Main         -         -         M30627           763 COLOR SYSTEM CONTROL-MODE(0:BW, 2:3.58NTSC, 3:4.43NTSC, ***) Sub         -         -         M30627           764 2msSync Judgement Count Value         Main         -         -         M30627           765 2msSync Judgement Count Value         Sub         -         -         M30627           766 TB1274 Read Data(00h)         Sub         -         -         M30627           766 TB1274 Read Data(01h)         Sub         -         -         M30627           768 MSP Read Data (CNTROL         ) (D15-D8)         -         -         MSP3455G           769 MSP Read Data (CNTROL         ) (D 7-D0)         -         -         MSP3455G           770 MSP Read Data (STANDARD_RES) (D15-D8)         -         -         MSP3455G           771 MSP Read Data (STATUS         ) (D15-D8)         -         -         MSP3455G           773 MSP Read Data (STATUS         ) (D 7-D0)         -         -         MSP3455G           774 TA1391FG Read Data(00h)         -         -         -         MSP3455G							
762 COLOR SYSTEM CONTROL-MODE(0:BW, 2:3.58NTSC, 3:4.43NTSC, ***) Main       -       -       M30627         763 COLOR SYSTEM CONTROL-MODE(0:BW, 2:3.58NTSC, 3:4.43NTSC, ***) Sub       -       -       M30627         764 2msSync Judgement Count Value       Main       -       -       M30627         765 2msSync Judgement Count Value       Sub       -       -       M30627         766 TB1274 Read Data(00h)       Sub       -       -       TB1274         767 TB1274 Read Data(01h)       Sub       -       -       TB1274         768 MSP Read Data (CNTROL ) (D15-D8)       -       -       MSP3455G         769 MSP Read Data (CNTROL ) (D 7-D0)       -       -       MSP3455G         770 MSP Read Data (STANDARD_RES) (D15-D8)       -       -       MSP3455G         771 MSP Read Data (STANDARD_RES) (D 7-D0)       -       -       MSP3455G         773 MSP Read Data (STATUS ) (D15-D8)       -       -       -       MSP3455G         774 TA1391FG Read Data(0th)       -       -       -       TA1391FG         775 TA1391FG Read Data(0th)       -       -       TA1391FG         776 TA1391FG Read Data(04h)       -       -       TA1391FG         778 TA1391FG Read Data(04h)       -       -       TA1391FG				+			
763 COLOR SYSTEM CONTROL-MODE(0:BW, 2:3.58NTSC, 3:4.43NTSC, ***) Sub       -       -       M30627         764 2msSync Judgement Count Value       Sub       -       -       M30627         765 2msSync Judgement Count Value       Sub       -       -       M30627         766 TB1274 Read Data(00h)       Sub       -       -       TB1274         767 TB1274 Read Data(01h)       Sub       -       -       TB1274         768 MSP Read Data (CNTROL ) (D15-D8)       -       -       MSP3455G         769 MSP Read Data (STANDARD NES) (D15-D8)       -       -       MSP3455G         770 MSP Read Data (STANDARD RES) (D15-D8)       -       -       MSP3455G         771 MSP Read Data (STATUS ) (D15-D8)       -       -       MSP3455G         773 MSP Read Data (STATUS ) (D7-D0)       -       -       MSP3455G         774 TA1391FG Read Data(00h)       -       -       TA1391FG         775 TA1391FG Read Data(01h)       -       -       TA1391FG         776 TA1391FG Read Data(03h)       -       -       TA1391FG         778 TA1391FG Read Data(04h)       -       -       TA1391FG				254	45		
764 2msSync Judgement Count Value       Main       -       -       M30627         765 2msSync Judgement Count Value       Sub       -       -       M30627         766 TB1274 Read Data(00h)       Sub       -       -       TB1274         767 TB1274 Read Data(01h)       Sub       -       -       TB1274         768 MSP Read Data (CNTROL ) (D15-D8)       -       -       MSP3455G         769 MSP Read Data (CNTROL ) (D 7-D0)       -       -       MSP3455G         770 MSP Read Data (STANDARD_RES) (D15-D8)       -       -       MSP3455G         771 MSP Read Data (STANDARD_RES) (D 7-D0)       -       -       MSP3455G         772 MSP Read Data (STATUS ) (D15-D8)       -       -       MSP3455G         773 MSP Read Data (STATUS ) (D 7-D0)       -       -       MSP3455G         774 TA1391FG Read Data(00h)       -       -       TA1391FG         775 TA1391FG Read Data(01h)       -       -       TA1391FG         777 TA1391FG Read Data(03h)       -       -       TA1391FG         778 TA1391FG Read Data(04h)       -       -       TA1391FG				+-	-		
765 2msSync Judgement Count Value       Sub       -       -       M30627         766 TB1274 Read Data(00h)       Sub       -       -       TB1274         767 TB1274 Read Data(01h)       Sub       -       -       TB1274         768 MSP Read Data (CNTROL ) (D15-D8)       -       -       MSP3455G         769 MSP Read Data (CNTROL ) (D 7-D0)       -       -       MSP3455G         770 MSP Read Data (STANDARD_RES) (D15-D8)       -       -       MSP3455G         771 MSP Read Data (STANDARD_RES) (D 7-D0)       -       -       MSP3455G         772 MSP Read Data (STATUS ) (D15-D8)       -       -       MSP3455G         773 MSP Read Data (STATUS ) (D 7-D0)       -       -       MSP3455G         774 TA1391FG Read Data(00h)       -       -       TA1391FG         775 TA1391FG Read Data(01h)       -       -       TA1391FG         776 TA1391FG Read Data(02h)       -       -       TA1391FG         778 TA1391FG Read Data(04h)       -       -       TA1391FG				-	-		
766 TB1274 Read Data(00h)       Sub       -       -       TB1274         767 TB1274 Read Data(01h)       Sub       -       -       TB1274         768 MSP Read Data (CNTROL) (D15-D8)       -       -       MSP3455G         769 MSP Read Data (CNTROL) (D 7-D0)       -       -       MSP3455G         770 MSP Read Data (STANDARD_RES) (D15-D8)       -       -       MSP3455G         771 MSP Read Data (STANDARD_RES) (D 7-D0)       -       -       MSP3455G         772 MSP Read Data (STATUS) (D15-D8)       -       -       MSP3455G         773 MSP Read Data (STATUS) (D 7-D0)       -       -       MSP3455G         774 TA1391FG Read Data(00h)       -       -       TA1391FG         775 TA1391FG Read Data(01h)       -       -       TA1391FG         776 TA1391FG Read Data(02h)       -       -       TA1391FG         778 TA1391FG Read Data(04h)       -       -       TA1391FG		, ,		+-	-		
767 TB1274 Read Data(01h)       Sub       -       -       TB1274         768 MSP Read Data (CNTROL ) (D15-D8)       -       -       MSP3455G         769 MSP Read Data (CNTROL ) (D 7-D0)       -       -       MSP3455G         770 MSP Read Data (STANDARD_RES) (D15-D8)       -       -       MSP3455G         771 MSP Read Data (STANDARD_RES) (D 7-D0)       -       -       MSP3455G         772 MSP Read Data (STATUS ) (D15-D8)       -       -       MSP3455G         773 MSP Read Data (STATUS ) (D 7-D0)       -       -       MSP3455G         774 TA1391FG Read Data(00h)       -       -       TA1391FG         775 TA1391FG Read Data(01h)       -       -       TA1391FG         776 TA1391FG Read Data(02h)       -       -       TA1391FG         778 TA1391FG Read Data(04h)       -       -       TA1391FG	_	, ,		+-	-		
768 MSP Read Data (CNTROL ) (D15-D8)       - MSP3455G         769 MSP Read Data (CNTROL ) (D 7-D0)       - MSP3455G         770 MSP Read Data (STANDARD_RES) (D15-D8)       - MSP3455G         771 MSP Read Data (STANDARD_RES) (D 7-D0)       - MSP3455G         772 MSP Read Data (STATUS ) (D15-D8)       - MSP3455G         773 MSP Read Data (STATUS ) (D 7-D0)       - MSP3455G         774 TA1391FG Read Data(00h)       - TA1391FG         775 TA1391FG Read Data(01h)       - TA1391FG         776 TA1391FG Read Data(02h)       - TA1391FG         777 TA1391FG Read Data(03h)       - TA1391FG         778 TA1391FG Read Data(04h)       - TA1391FG			•	+-			
769 MSP Read Data (CNTROL ) (D 7-D0)       - MSP3455G         770 MSP Read Data (STANDARD_RES) (D15-D8)       - MSP3455G         771 MSP Read Data (STANDARD_RES) (D 7-D0)       - MSP3455G         772 MSP Read Data (STATUS ) (D15-D8)       - MSP3455G         773 MSP Read Data (STATUS ) (D 7-D0)       - MSP3455G         774 TA1391FG Read Data(00h)       - TA1391FG         775 TA1391FG Read Data(01h)       - TA1391FG         776 TA1391FG Read Data(02h)       - TA1391FG         777 TA1391FG Read Data(03h)       - TA1391FG         778 TA1391FG Read Data(04h)       - TA1391FG			Jun	+-			
770 MSP Read Data (STANDARD_RES) (D15-D8)       -       -       MSP3455G         771 MSP Read Data (STANDARD_RES) (D 7-D0)       -       -       MSP3455G         772 MSP Read Data (STATUS ) (D15-D8)       -       -       MSP3455G         773 MSP Read Data (STATUS ) (D 7-D0)       -       -       MSP3455G         774 TA1391FG Read Data(00h)       -       -       TA1391FG         775 TA1391FG Read Data(01h)       -       -       TA1391FG         776 TA1391FG Read Data(02h)       -       -       TA1391FG         778 TA1391FG Read Data(04h)       -       -       TA1391FG				+-	<u> </u>		
771 MSP Read Data (STANDARD_RES) (D 7-D0)       -       -       MSP3455G         772 MSP Read Data (STATUS ) (D15-D8)       -       -       MSP3455G         773 MSP Read Data (STATUS ) (D 7-D0)       -       -       MSP3455G         774 TA1391FG Read Data(00h)       -       -       TA1391FG         775 TA1391FG Read Data(01h)       -       -       TA1391FG         776 TA1391FG Read Data(02h)       -       -       TA1391FG         777 TA1391FG Read Data(03h)       -       -       TA1391FG         778 TA1391FG Read Data(04h)       -       -       TA1391FG				+-	<u> </u>		
772 MSP Read Data (STATUS ) (D15-D8)       - MSP3455G         773 MSP Read Data (STATUS ) (D 7-D0)       - MSP3455G         774 TA1391FG Read Data(00h)       - TA1391FG         775 TA1391FG Read Data(01h)       - TA1391FG         776 TA1391FG Read Data(02h)       - TA1391FG         777 TA1391FG Read Data(03h)       - TA1391FG         778 TA1391FG Read Data(04h)       - TA1391FG				† <u>-</u>			
773 MSP Read Data (STATUS ) (D 7-D0)       - MSP3455G         774 TA1391FG Read Data(00h)       - TA1391FG         775 TA1391FG Read Data(01h)       - TA1391FG         776 TA1391FG Read Data(02h)       - TA1391FG         777 TA1391FG Read Data(03h)       - TA1391FG         778 TA1391FG Read Data(04h)       - TA1391FG				<del>                                     </del>	_		
774 TA1391FG Read Data(00h)       -       -       TA1391FG         775 TA1391FG Read Data(01h)       -       -       TA1391FG         776 TA1391FG Read Data(02h)       -       -       TA1391FG         777 TA1391FG Read Data(03h)       -       -       TA1391FG         778 TA1391FG Read Data(04h)       -       -       TA1391FG				<del>  -</del>	_		
775 TA1391FG Read Data(01h)       -       -       TA1391FG         776 TA1391FG Read Data(02h)       -       -       TA1391FG         777 TA1391FG Read Data(03h)       -       -       TA1391FG         778 TA1391FG Read Data(04h)       -       -       TA1391FG				+-	-		
776 TA1391FG Read Data(02h)       -       -       TA1391FG         777 TA1391FG Read Data(03h)       -       -       TA1391FG         778 TA1391FG Read Data(04h)       -       -       TA1391FG		,		† <u>-</u>	-		
777 TA1391FG Read Data(03h)       -       -       TA1391FG         778 TA1391FG Read Data(04h)       -       -       TA1391FG	_			† <u>-</u>			
778 TA1391FG Read Data(04h) TA1391FG	-	,		† -	-		
		,		† -	-		
				-	-		

Adj.	Function			Max.	Init.	Device
No	ADJ. Items	Mode	П	value	Value	201.00
780	TA1391FG Read Data(06h)		П	-	-	TA1391FG
	TA1391FG Read Data(07h)		П	-	-	TA1391FG
782	Sil9021 Read Data SYNC1 : VSYNC/Clock detect/Sync detect 1		П	-	-	HDMI
783	Sil9021 Read Data NHRDL1: N hardware value 1 Last 7Bits		П	-	-	HDMI
784	Sil9021 Read Data NHRDM1 : N hardware value 1 Middle 7Bits		П	-	-	HDMI
785	Sil9021 Read Data NHRDH1: N hardware value 1 First 4Bits		П	-	-	HDMI
786	Sil9021 Read Data CHRDL1: CTS hardware value 1 Last 7Bits		П	-	-	HDMI
787	Sil9021 Read Data CHRDM1: CTS hardware value 1 Middle 7Bits		П	-	-	HDMI
788	Sil9021 Read Data CHRDH1 : CTS hardware value 1 First 4Bits		П	-	-	HDMI
789	Sil9021 Read Data ACR1 : ACR PLL hardware value 1		П	-	-	HDMI
	Sil9021 Read Data ACRS1: ACR PLL hardware value 1 Depends on Source Side			-	-	HDMI
791	Sil9021 Read Data SFREQ1 : "Extracted Sampling Frequency 1 channel status b24-27(same value at 0x30)"			-	-	HDMI
	Sil9021 Read Data CLKFRQ1: Clock Accuracy/Sampling Frequency 1		П	-	-	HDMI
	Sil9021 Read Data ALNG1: Audio length/Audio length max 1		П	-	-	HDMI
	Sil9021 Read Data MT MD1 : AV mute/HDMI mode 1		П	-	-	HDMI
	Sil9021 Read Data VTYP1 : AVI infoframe type code 1 (Requested)		П	-	-	HDMI
	Sil9021 Read Data VVER1: AVI infoframe version code 1(Requested)		П	-	-	HDMI
	Sil9021 Read Data VINFO11: AVI infoframe data 1		П	-	-	HDMI
_	Sil9021 Read Data VINFO21:	1	Н	_	_	HDMI
	Sil9021 Read Data VINFO31:		Н	_	_	HDMI
	Sil9021 Read Data VINFO41:		Н	_		HDMI
	Sil9021 Read Data VINFO51:		Н	_	_	HDMI
002	Sil0021 Bood Data ATVD1 · ALIDIO InfoEroma Type Code 1 (Beguested)		Н		_	HDMI
803	Sil9021 Read Data ATTET: AODIO InfoFrame Type Code 1 (Requested) Sil9021 Read Data AVER1: AUDIO InfoFrame Version Code 1 (Requested)		П	-	-	HDMI
	Sil9021 Read Data AINFO11: AUDIO InfoFrame Data Bytes 1		H	_	_	HDMI
	Sil9021 Read Data AINFO21:		Н			HDMI
	Sil9021 Read Data AINT 021:		Н	_		HDMI
	Sil9021 Read Data AINFO41:		Н			HDMI
	Sil9021 Read Data AINFO41. Sil9021 Read Data AINFO51:		Н	-	-	HDMI
	PANORAMIC1/2 for AUTO[PANORAMIC]	PANORAMIC1[0]/2[1]	Н	1	0	ПОМ
	Set upper limit value(%) of stable picture of DTT	0:always invalid ,1:100%,2:80%,3:60%, 4:40%,5:20%,6:0%		6	0	M30627
011	T/Text Debug mode	(always effective)	Н	2	2	SDA6000
	Eye-Height-Optimisation BIT_7BIT_0[7:0]	0:Disabled, 1:Enabled	Н	1	0	SDA6000
	Local time offset LTO 4-LTO 0[4:0]	O.Disabica, T.Enabica	Н	31	0	SDA6000
	Local time offset SIGN[7:5]		П	7	0	SDA6000
	T/Text Station Name Timeout	×80ms	П	255	80	-
816	T/Text Display H position [Byte 1]	One screen is for	П	255	28	SDA6000
817	T/Text Display H position [Byte 1]	Two screens are for	Н	255	129	SDA6000
010	T/Text Display H position at side panel mode [Byte 2]	exclusive use	Н	255	0	SDA6000
	T/Text Display H position at side panel mode [Byte 2]		Н	255	33	SDA6000
820	T/Text Display V position [Byte 5]	One screen is for exclusive use	П	255	15	SDA6000
	T/Text Display V position [Byte 5]	Two screens are for exclusive use		255	0	SDA6000
	T/Text pixel frequency for normal mode [Byte 6]		П	255	1	SDA6000
	T/Text pixel frequency for normal mode [Byte 7]		Ц	255	64	SDA6000
	T/Text pixel frequency for side panel mode [Byte 8]		Н	255	3	SDA6000
	T/Text pixel frequency for side panel mode [Byte 9] GAM_RS	0:old map 1:new map(range)	Н	255 1	32 1	SDA6000 PDP
827	N-APSON	0:OFF 1:ON	Н	1	1	PDP
828	B-APSON	0:OFF 1:ON	Н	1	0	PDP
	SPDOFF 0:ON, 1:OFF	Dynamic mode	П	1	0	PDP
830	SPDOFF 0:ON, 1:OFF	Normal mode	Ճ	1	0	PDP
831	SPDOFF 0:ON, 1:OFF	Cinema mode		1	0	PDP
	C3OTON(NORMAL/WARM/B/W)	1:ON, 0:OFF	Ц	1	1	PDP
	C3OTLV(NORMAL/WARM/B/W)	1:Standard, 0:Weak	Н	1	0	PDP
	Sub Contrast 1	Scart-RGB(50/60Hz)	Н	15	0	TA1391FG
	DTT-TEXT Analog/Digital SW (for Continental Model) For Event Timer Function check 0:Normal(Off), 1:High, 2:Middle	0:Analog, 1:Digital	Н	2	0	-
	C3TBL_SEL_B		Н	1	0	PDP
037	O01DL_OLL_D	I.	ш	ı	U	וט ו

Adj.	Function				Device
INO	ADJ. Items	Mode	value	Value	
	C3TBL_SEL_G		1	0	PDP
	C3OTLEV_SEL_B		3	0	PDP
	C3OTLEV_SEL_G C3OTLEV_SEL_R		3	0	PDP
	Reserved for EURO	+	3	0	PDP
	Reserved for EURO		-	-	<u>-</u>
	Reserved for EURO		+-	-	<u>-</u>
	Reserved for EURO		-	-	-
	Reserved for EURO		_	_	-
	Reserved for EURO		_	-	-
	Reserved for EURO		-	-	-
849	Reserved for EURO		-	-	-
850	Reserved for EURO		-	-	-
851	Reserved for EURO		-	-	-
852	Reserved for EURO		-	-	-
	Reserved for EURO		-	-	-
	Reserved for EURO		-	-	-
	Reserved for EURO		-	-	-
	Reserved for EURO		-	-	-
	Reserved for EURO		-	-	-
	Reserved for EURO		-	-	-
	Reserved for EURO		-	-	-
	Reserved for EURO		-	-	-
	Reserved for EURO		-	-	-
	Reserved for EURO		-	-	-
-	Reserved for EURO Reserved for EURO		+ -	-	-
	Reserved for EURO	-	+ -	-	-
	Reserved for EURO		+ -	-	-
	Reserved for EURO		+ -	-	-
	Reserved for EURO		<del>-</del>	_	-
	Reserved for EURO		_	-	-
-	Reserved for EURO		-	-	-
	Reserved for EURO		-	-	-
-	Reserved for EURO	İ	-	-	-
	Reserved for EURO		-	-	-
874	Reserved for EURO		-	-	-
	Reserved for EURO		-	-	-
	Reserved for EURO		-	-	-
	Reserved for EURO		-	-	-
	Reserved for EURO		-	-	-
	Reserved for EURO		-	-	-
	Reserved for EURO		-	-	-
	Reserved for EURO Reserved for EURO		-	-	-
-	Reserved for EURO Reserved for EURO		-	-	-
	Reserved for EURO		+ -	-	-
	Reserved for EURO		+ -	-	<u> </u>
		nable	1	1 1	<del></del> _
-		ormal, 1:Over 10ms	+ :	-	SDA6000
-	RS232C Terminal control mode 0:Terminal Mode, 1:DTT software	ormai, r.over roms	1	0	M30627
	update		'		11100027
889	Sil9021 Read Data H-RES(H) Decimal mark ×100		-	-	HDMI
	Sil9021 Read Data H-RES(L) Decimal mark ×1		-	-	HDMI
891	Sil9021 Read Data V-RES(H) Decimal mark ×100		-	-	HDMI
-	Sil9021 Read Data V-RES(L) Decimal mark ×1		-	-	HDMI
-		ormal 1:Reset	1	0	M30627
	Accumulation time for Panel (hours)		65535	-	PDP
	Display of Panel map version		255	-	PDP
	W/B Initialize		1	-	M30627
	Gain adjustment of RGB amplifier (FLAON)  Mair	n	-	-	FC
	EEPROM Initialize(0:No, 1:Yes)		1	0	M30627
	Enter to SUB adjust menu		-	-	M30627
<u> 900</u>	Enter to service menu of FC sub mi-con	l	-		FC

## ● Service adjustment items by I<sup>2</sup>C-bus control (SUB adjust menu) (\*The change to a sub menu. press "ok" key after no.899 with a main menu)

Adj. No		Function		Init.	Device
	ADJ. Items	Mode			
	R DRIVE1 [RF/VIDEO/HDMI]	COOL	255	255	PDP/FC
	G DRIVE1 [RF/VIDEO/HDMI]	COOL	255	255	PDP/FC
	B DRIVE1 [RF/VIDEO/HDMI]	COOL	255	255	PDP/FC
	R DRIVE2 [RF/VIDEO/HDMI]	NORMAL	255	255	PDP/FC
	G DRIVE2 [RF/VIDEO/HDMI]	NORMAL	255	255	PDP/FC
	B DRIVE2 [RF/VIDEO/HDMI]	NORMAL	255	255	PDP/FC
	R DRIVE3 [RF/VIDEO/HDMI]	WARM	255	255	PDP/FC
	G DRIVE3 [RF/VIDEO/HDMI]	WARM	255	255	PDP/FC
	B DRIVE3 [RF/VIDEO/HDMI]	WARM	255	255	PDP/FC
	R DRIVE4 [RF/VIDEO/HDMI]	BLACK & WHITE	255	255	PDP/FC
	G DRIVE4 [RF/VIDEO/HDMI]	BLACK & WHITE	255	255	PDP/FC
	B DRIVE4 [RF/VIDEO/HDMI]	BLACK & WHITE	255	255	PDP/FC
	R DRIVE1 [DSUB-RGB]	COOL	255	255	PDP/FC
	G DRIVE1 [DSUB-RGB]	COOL COOL	255	255	PDP/FC
	B DRIVE1 [DSUB-RGB]		255	255	PDP/FC
	R DRIVE2 [DSUB-RGB]	NORMAL	255	255	PDP/FC
	G DRIVE2 [DSUB-RGB]	NORMAL	255	255	PDP/FC
	B DRIVE2 [DSUB-RGB] R DRIVE3 [DSUB-RGB]	NORMAL WARM	255 255	255 255	PDP/FC PDP/FC
	R DRIVE3 [DSUB-RGB] G DRIVE3 [DSUB-RGB]		255		PDP/FC
	G DRIVE3 [DSUB-RGB] B DRIVE3 [DSUB-RGB]	WARM WARM	255	255 255	PDP/FC
	В DRIVE3 [DSUB-RGB] R DRIVE4 [DSUB-RGB]		255	255	PDP/FC
	G DRIVE4 [DSUB-RGB]	BLACK & WHITE BLACK & WHITE	255	255	PDP/FC
	B DRIVE4 [DSUB-RGB]	BLACK & WHITE	255	255	PDP/FC
	Б DRIVE4 [DS06-RG6] R DRIVE3 OFFSET (0[-128] ~ 128[±0] ~ 255[		255	128	-
	G DRIVE3 OFFSET (0[-128] ~ 128[±0] ~ 255[		255	110	-
	B DRIVE3 OFFSET (0[-126] ~ 126[±0] ~ 255[ B DRIVE3 OFFSET (0[-128] ~ 128[±0] ~ 255[		255	72	-
	R DRIVE3 OFFSET (0[-128] ~ 128[±0] ~ 255[		255	128	-
	G DRIVE4 OFFSET (0[-128] ~ 128[±0] ~ 255[		255	89	-
20	B DRIVE4 OFFSET (0[-128] ~ 128[±0] ~ 255[	+127]) BLACK & WHITE	255	45	<del></del>
	Brightness Center (CM)	NTSC/PAL/Multi	254	128	FC
	Brightness Center (CM)	Scart-RGB(50/60Hz)	254	128	FC
	Brightness Center (CM)	480i/576i/480p/576p	254	128	FC
	Brightness Center (CM)	1080i-50/60/720p	254	124	FC
	Brightness Center (CM)	→HDMI	254	128	FC
	Brightness Center (CM)	DTT	254	125	FC
	Brightness Center (CM)	DSUB-RGB	254	128	FC
	Brightness Center (CM)	Expand DSUB-RGB (Reserved)	254	128	FC
	Brightness center (CM) offset	AV1	254	127	FC
	Brightness center (CM) offset	AV2	254	127	FC
	Brightness center (CM) offset	AV3	254	127	FC
	Brightness center (CM) offset	AV4	254	127	FC
	Brightness center (CM) offset	AV5	254	127	FC
	→#223 ~		<del> </del>		<del></del>
	Color Center (CM)	→480p/576p	127	75	FC
	Color Center (CM)	Scart-RGB(50/60Hz)	127	70	FC
$\overline{}$	Color Center (CM)	HD(YPbPr)(50/60Hz)	127	60	FC
	Color Center (CM)	→HDMI(480i/576i/480p/576p)	127	60	FC
	Color Center (CM)	→HDMI(1080i-50/60/720p-50/60)	127	60	FC
	Color Center (CM)	→HDMI(VGA)	127	62	FC
-	Color Center (CM)	DTT	127	60	FC
$\overline{}$	Color Center (CM)	DSUB-RGB	127	64	FC
	→#229 ~		-	-	-
	Tint Center (CM)	Scart-RGB(50Hz)	254	128	FC
	Tint Center (CM)	Scart-RGB(60Hz)	254	128	FC
	Tint Center (CM)	→576p	254	123	FC
	Tint Center (CM)	→480p	254	116	FC
	Tint Center (CM)	HD(YPbPr)(50/60Hz)	254	110	FC
	Tint Center (CM)	HDMI-YCbCr(50Hz:576i/576p)	254	126	FC
	Tint Center (CM)	HDMI-YCbCr(60Hz:480i/480p)	254	126	FC

Adj.	Function			Init.	Device
No	ADJ. Items	Mode		Value	
-	Tint Center (CM)	HDMI-YPbPr(1080i-50/60/720p)	254	135	FC
	Tint Center (CM)	→HDMI(VGA)	254	128	FC
	Tint Center (CM)	DTT	254	128	FC
-	Tint Center (CM)	DSUB-RGB	254	128	FC
	Center of Sharpness (HV Enhancer Gain for Y)	RF.	31	10	FC
	Center of Sharpness (HV Enhancer Gain for Y)	VIDEO	31	15	FC
$\overline{}$	Center of Sharpness (HV Enhancer Gain for Y)	Scart-RGB(50/60Hz)	31	18	FC
	Center of Sharpness (HV Enhancer Gain for Y) Center of Sharpness (HV Enhancer Gain for Y)	480i/576i	31	15 15	FC FC
-	, , ,	480p/576p	31	+	FC
	Center of Sharpness (HV Enhancer Gain for Y) Center of Sharpness (HV Enhancer Gain for Y)	720p 1080i-50/60	31	6	FC
	Center of Sharpness (HV Enhancer Gain for Y)  Center of Sharpness (HV Enhancer Gain for Y)	TEXT(for split)	31	19	FC
	Center of Sharpness (HV Enhancer Gain for Y)	→HDMI(480i/576i)	31	8	FC
	Center of Sharpness (HV Enhancer Gain for Y)	→HDMI(480p/576p)	31	10	FC
	Center of Sharpness (HV Enhancer Gain for Y)	→HDMI(720p-50/60)	31	5	FC
	Center of Sharpness (HV Enhancer Gain for Y)	→HDMI(1080i-50/60)	31	5	FC
	Center of Sharpness (HV Enhancer Gain for Y)	→HDMI(VGA)	31	10	FC
-	Center of Sharpness (HV Enhancer Gain for Y)	DTT	31	20	FC
	Contrast Center (CM)	RF	254	137	FC
	Contrast Center (CM)	AV1	254	137	FC
$\overline{}$	Contrast Center (CM)	AV2	254	137	FC
	Contrast Center (CM)	AV3	254	137	FC
-	Contrast Center (CM)	AV4	254	137	FC
-	Contrast Center (CM)	AV5	254	137	FC
	Contrast Center (CM)	→HDMI(With Setup)	254	149	FC
_	Contrast Center (CM)	→HDMI(Without Setup)	254	128	FC
-	Contrast Center (CM)	DTT	254	137	FC
-	Contrast Center (CM)	DSUB-RGB	254	128	FC
-	Contrast Center (CM)	Expand DSUB-RGB (Reserved)	254	128	FC
89	Maximum Value of Contrast at REAL/NORMAL mode		254	188	FC
	Offset Value of Contrast data at SPLIT mode		120	53	FC
91		→#220 ~ 222	11 -	-	-
92	Horizontal Enhance	TEXT	3	3	FC
93	Vertical Enhance	TEXT	3	3	FC
94	Horizontal Filter Switching [HHPF0]	NTSC/480i	1	0	FC
95	(Enlargement Adaptive Enhancer)[HHPF1]	PAL/576i	1	0	FC
96		480p/576p/1080i-50/60/720p	1	0	FC
	Horizontal Coring Amount [HECOR1]	NTSC-RF	15	3	FC
98	1 /1 1	PAL-RF/Multi	15	2	FC
99		NTSC-VIDEO	15	1	FC
100		PAL-VIDEO	15	1	FC
101	[HECOR5']	Scart-RGB(50/60Hz)	15	15	FC
102	[HECOR5]	480i/576i	15	15	FC
103		480p/576p	15	15	FC
104	[HECOR7]	1080i-50/60/720p	15	1	FC
105		DTT	15	15	FC
106		PC	15	1	FC
	Vertical Coring Amount [VECOR1]	NTSC-RF	15	1	FC
108	1 /1	PAL-RF/Multi	15	8	FC
109		NTSC-VIDEO	15	1	FC
110		PAL-VIDEO	15	1	FC
111	[VECOR5]	Scart-RGB(50/60Hz) 480i/576i	15 15	0	FC FC
112 113		4801/5761 480p/576p	15	0	FC
114	[VECOR7]	1080i-50/60/720p	15	15	FC
115		DTT	15	15	FC
116	·	PC	15	0	FC
$\overline{}$	Enhancer gain of VH for C	TEXT	31	31	FC
	Coring Amplitude for Y/G [YC0R0]	NTSC/PAL-RF/Multi	7	2	FC
119		NTSC/PAL-NIDEO	7	0	FC
119	[TOUNT]	INTOON AL-VIDEO			_ ' ' '

Adj.			Max.	Init.	Device
No	ADJ. Items	Mode		Value	
120	[YC0R2]	480i/576i/Scart-RGB(50/60Hz)	7	1	FC
121	[YC0R3]	480p/576p	7	1	FC
122	[YC0R4]	1080i-50/60/720p	7	1	FC
123	[YC0R5]	NTSC/PAL- S Input	7	4	FC
124	[YCOR2']	DTT	7	4	FC
125	Coring Amplitude for B-Y/B, R-Y/R [CC0R0]	NTSC/PAL/480i/576i/Multi	7	1	FC FC
	[CC0R1] Main YFRNR Input Gain 2 Picture [MYNRG0]	480p/576p/1080i-50/60/720p Except HD-HD	7	1 1	FC
	(Sub Side of HD-NTSC, HD-PAL) [MYNRG1]	HD-HD	7	4	FC
129	, , ,	NT-* /PAL-*	7	1	FC
130	<u> </u>	HD-*	7	4	FC
	Sub YFRNR Input Gain [YCNRG0]	2 Picture	7	4	FC
132	[YCNRG1]	4 Picture/12 Picture	7	1	FC
	Main CFRNR Input Gain 2 Picture [MCNRG0]	Except HD-HD	7	3	FC
134		HD-HD	7	4	FC
135	[MCNRG2]	NT-* /PAL-*	7	4	FC
136	[MCNRG3]	HD-*	7	4	FC
137	Sub CFRNR Input Gain [SCNRG0]	2 Picture	7	3	FC
138	[SCNRG1]	4 Picture/12 Picture	7	4	FC
139	Vertical Enhancer Gain for Y/G [YVEG0]	NTSC/PAL(Except-RF)/480i/576i	15	15	FC
140	[YVEG1]	480p/576p	15	4	FC
141	[YVEG2]	1080i-50/60/720p	15	15	FC
142	[YVEG3]	PAL(-RF)/Multi	15	15	FC
143	[YVEG0']	DTT	15	15	FC
-	Vertical DSB Gain for Y/G [YVDSBG0]	NTSC/PAL/480i/576i/Multi	3	3	FC
145	[YVDSBG1]	480p/576p	3	0	FC
146	[YVDSBG2]	1080i-50/60/720p	3	2	FC
147	[YVDSBG0']	DTT	3	3	FC
	Vertical DSB Coring for Y/G [YVDSBC0]	NTSC/PAL/480i/576i/Multi	7	7	FC
149	[YVDSBC1]	480p/576p/1080i-50/60/720p	7	0	FC
150	· .	DTT	7	7	FC
151	Vertical Enhancer CLIP for Y/G 0:LTI [YVECLP0] [YVECLP1]	NTSC/PAL/480i/576i/Multi	1	0	FC FC
$\overline{}$	Vertical CLIP Offset Level for Y/G [YVECLPL0]	480p/576p/1080i-50/60/720p NTSC/PAL/480i/576i/Multi	15	15	FC
154	[YVECLPL0]	480p/576p/1080i-50/60/720p	15	8	FC
155	[YVECLPL0]	DTT	15	15	FC
	Vertical Nonlinear Peaking for Y/G [YVNLP0]	NTSC/PAL/480i/576i/Multi	63	0	FC
157	IYVNLP11	480p/576p/1080i-50/60/720p	63	0	FC
1.5	Horizontal Enhancer Gain for Y/G [YHEG0]	NTSC/PAL(Except-RF)/480i/576i	15	10	FC
159	· · ·	480p/576p	15	8	FC
160	[YHEG2]	1080i-50/60/720p-60(720p-501)	15	15	FC
161	[YHEG2']	720p-50	15	5	FC
162	[YHEG3]	PAL(-RF)/Multi	15	15	FC
163	[YHEG0']	DTT	15	8	FC
164	Horizontal DSB Gain for Y/G [YHDSBG0]	NTSC/PAL/480i/576i/Multi	3	2	FC
165	[YHDSBG1]	480p/576p	3	2	FC
166	[YHDSBG2]	1080i-50/60/720p	3	2	FC
167	[YHDSBG0']	DTT	3	2	FC
-	Horizontal DSB Coring for Y/G [YHDSBC0]	NTSC/PAL/480i/576i/Multi	7	7	FC
169	[YHDSBC1]	480p/576p/1080i-50/60/720p	7	7	FC
170		DTT	7	7	FC
-	Horizontal Enhancer CLIP for Y/G 0:LTI [YHDSBC0]	NTSC/PAL/480i/576i/Multi	1	0	FC
172	[YHDSBC1]	480p/576p/1080i-50/60/720p	1 1-	0	FC
-	Horizontal CLIP Offset level for Y/G [YHECLPL0]	RF/Multi	15	4	FC
174	[YHECLPL1]	NTSC/PAL-VIDEO	15	4	FC
175	[YHECLPL3]	480i/576i/Scart-RGB(50/60Hz)	15	4	FC
176 177		480p/576p/1080i-50/60/720p	15 15	8	FC FC
-	[YHECLPL0'] Horizontal Nonlinear Peaking for Y/B [YHNLP0]	DTT NTSC/PAL/480i/576i/Multi	63	5	FC
179	<u> </u>	480p/576p/1080i-50/60/720p	63	0	FC
1/9	[IIIINLI I]	T-00010100110001-001001120p	1 00		10

Adj.	Function		Mai	, Init.	Device
No	ADJ. Items	Mode	- IVIC	` Value	Device
180		NTSC/PAL/480i/576i/Multi	3	2	FC
181	. , ,	480p/576p	3	2	FC
182		1080i-50/60/720p	3	2	FC
$\rightarrow$	Initial value of Contrast (Degradation Reduction1)	Extend 1 of Panel Life function	12		PDP/FC
	Interval time of correction time (Degradation Reduction1)	Extend 1 of Panel Life function	12		PDP/FC
		Extend 1 of Panel Life function	12		PDP/FC
-	Initial value of Contrast (Degradation Reduction2)	Extend 2 of Panel Life function	12	7 63	PDP/FC
	Interval time of correction time (Degradation Reduction2)	Extend 2 of Panel Life function	12		PDP/FC
-	Additional value of Contrast (Degradation Reduction2)	Extend 2 of Panel Life function	12		PDP/FC
$\overline{}$	Power REFerence(RF/VIDEO)		20		PDP
-	Power REFerence(DSUB)		20		PDP
$\vdash$	Power High Stress(RF/VIDEO)		3	0	PDP
	Power High Stress(DSUB)		3	0	PDP
-	Menu Init. Contrast (-31[0] ~ +40[71])	For Dynamic	71	62	-
	Menu Init. Contrast (-31[0] ~ +40[71])	For Natural	71	62	-
		For Cinema	71		-
		For Dynamic	62		_
	Menu Init. Brightness (-31[0] ~ +31[62])	For Natural	62		_
	Menu Init. Brightness (-31[0] ~ +31[62])	For Cinema	62		_
	Menu Init. Color (-31[0] ~ +31[62])	For Dynamic	62		-
	Menu Init. Color (-31[0] ~ +31[62])	For Natural	62		-
	Menu Init. Color (-31[0] ~ +31[62])	For Cinema	62		_
_	Menu Init. Sharpness (-15[0] ~ +15[30])	For Dynamic	30		_
		For Natural	30		-
	Menu Init. Sharpness (-15[0] ~ +15[30])	For Cinema	30		-
	Menu Init. Color Temp.(Cool[0]/Normal[1]/Warm[2]/B&W[3])	For Dynamic	3	1	-
-		For Natural	3	1	-
	Menu Init. Color Temp.(Cool[0]/Normal[1]/Warm[2]/B&W[3])	For Cinema	3	2	-
	Menu Init. Black stretch (Off[0]/Low[1]/Mid.[2]/High[3])	For Dynamic	3	2	-
	Menu Init. Black stretch (Off[0]/Low[1]/Mid.[2]/High[3])	For Natural	3	2	-
	Menu Init. Black stretch (Off[0]/Low[1]/Mid.[2]/High[3])	For Cinema	3	1 0	_
	Menu Init. YNR (Off[0]/Low[1]/High[2])	For Dynamic	2	0	-
	Menu Init. YNR (Off[0]/Low[1]/High[2])	For Natural	2	0	-
	Menu Init. YNR (Off[0]/Low[1]/High[2])	For Cinema	2	0	_
	,	For Dynamic	3	2	-
		For Natural	3	1	-
	Menu Init. LTI (Off[0]/Low[1]/Mid.[2]/High[3])	For Cinema	3	0	-
	Vs,Va Feed-Back control ON (VFBON)		1	0	PDP
$-\!\!\!-\!\!\!\!-$	` '	576i	25	128	FC
		480i	25		FC
	Offset value of gain for Black Stretch function	LOW mode	63		FC
		MID mode	63	$\rightarrow$	FC
	Offset value of gain for Black Stretch function	HIGH mode	63		FC
		NTSC	12	o	FC
		NTSC-S	12		FC
		PAL	12		FC
		PAL-S	12		FC
		480i	12		FC
		576i	12		FC
		NTSC	25		FC
-	` ,	NTSC-S	25	$\rightarrow$	FC
$\rightarrow$	· · ·	PAL	25		FC
	· · · · · · · · · · · · · · · · · ·	PAL-S			FC

Adj.	Function		Max.	Init. Value	Device
140	ADJ. Items	Mode		value	
233	Offset value of gain for Black Stretch function LO	DW mode at HD signal	63	0	FC
234	Offset value of gain for Black Stretch function MII	ID mode at HD signal	63	45	FC
235	Offset value of gain for Black Stretch function HIC	GH mode at HD signal	63	55	FC
236	Menu init. Contrast mode (Normal [0] Auot [1] / Dynamic. [2]) For	or Dynamic	2	2	FC
237	Menu init. Contrast mode (Normal [0] Auot [1] / Dynamic. [2])  For	or Natural	2	0	FC
238	Menu init. Contrast mode (Normal [0] Auot [1] / Dynamic. [2])  For	or Cinema	2	0	FC
239	Y/G Horizontal Enhancer Gain [YHEG2] 108	080i-50/60/720p-60 (HDMI)	15	5	FC
240	[YHEG2'] 720	20p-50 (HDMI *EX. HDMI→#160-161	15	5	FC
241	dummy241		-	-	-
242	dummy242		-	-	-
243	dummy243		-	-	-
244	dummy244		-	-	-
245	dummy245		-	-	-
246	dummy246		-	-	-
247	dummy247		-	-	-

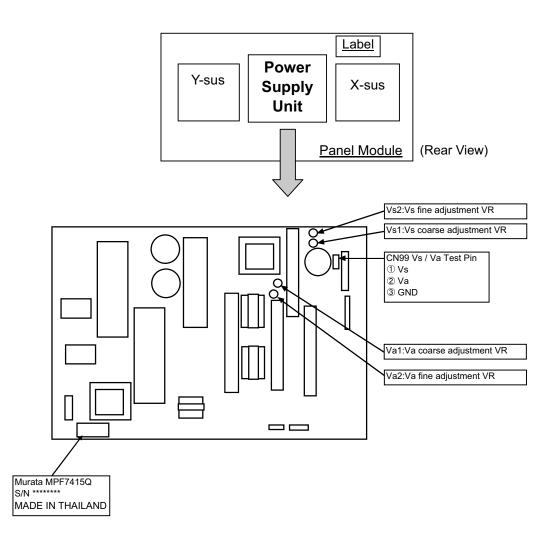
#### Factory Reset

After all of the adjustments of main chassis are finished, perform FACTORY RESET.

Press the SUB-POWER( $\bigcirc$ ) button, INPUT SELECT( $\bigcirc$ ) button and  $\blacktriangle$  button at the same time, and hold for more than 5 seconds.

The unit is set to factory settings.

	Item Power Unit Vs, Va Adjustment				
	Pre	eparation		Procedure	
(1)	Turn on the set and pre-heat run more to on burn-in screen.	•	(1)	Turn Vs ADJ to adjust Vs voltage to be within ±0.1V of the value specified in the label on the panel.  ① Adjust within ± 1V at Vs1 ② Adjust within ± 0.1V at Vs2	
(2)	Receive full back p (or Video silence si but it will be automa after a few seconds	gnal;	(2)	Turn Va ADJ to adjust Va voltage to be within ±0.2V of the value specified in the label on the panel.  ① Adjust within ± 1V at Va1 ② Adjust within ± 0.2V at Va2	
(3)	Connect voltmeter (or Va) and GND te	leads to Vs est points of the power unit.	(3)	Reconfirm that Vs voltage remains within ±0.1V of the specified value. Readjust if it's outside of the margin.  Label example <lot>N6 Vs= 80.0V Va=60.0V Vw=140.0V Vx=60.0V</lot>	



Item RGB Amplitude Adjustment (PC D-Sub input)				
	P	reparation		Procedure
(1)		amplitude adjustment signal of VGA properties of RGB2 [D-sub] terminal.		Receive PC signal (VGA [60Hz]), and indicate Service Adjustment Menu.(Main)
	Chara	pattern: Set pedestal level. cters must not be inserted s signal.  Black White	(2)	Select No.897 of Service Adjustment Menu. Press [OK] key more than 2 seconds to start the automatic adjustment. The adjustment completes when the OSD reappears.

[Note] Never adjust without use of the specified signal.

If that were done by mistake, the picture would become abnormal in black level, contrast and color. In this case, it will be recovered by re-adjustment in the specified way.

Item RGB Amplitude Adjustment (Main)			
F	Preparation		Procedure
(1) Input 576p or 480 into AV1 terminal.	op adjustment signal	(1)	Receive 576p or 480p adjustment signal on AV1 terminal input. Indicate Service Adjustment Menu.
Chara into th	pattern: Set pedestal level. cters must not be inserted is signal.  Black White	(2)	Select No.897 (RGB amplitude gain adjustment Main) of Service Adjustment Menu. Press [OK] key more than 2 seconds to start the automatic adjustment. The adjustment completes when the indication [Auto Mode] at the bottom of the screen disappears.

[Note] Never adjust without use of the specified signal.

If that were done by mistake, the picture would become abnormal in black level, contrast and color. In this case, it will be recovered by re-adjustment in the specified way.

	Item Video Colour Temperature Adjustment (Cool)				
	Adjust	ment Preparations		Adjustment Procedures	
(1)	Set the signal generator output as All White.		(1)	Perform the following adjustment with the remote control	
(2)	2) Component signal (480i) Video level : 0.700Vp-p Sync level : 0.300Vp-p Setup level : 0V		(2)	Set the CRT colour analyzer (CA100) at the centre of the panel.	
(3)	Picture Menu is set as [RESET].		(3)	Ensure that the service adjustment menu (sub menu) No. 0, 1, 2, are all set as 255.	
(4)	Confirm that the mode is set as Factory Adjustment mode.		(4)	After receiving the video signal, step down the two (or one) among adjustment No. 0, 1, 2 and adjust the values as shown below.	
				Note) At least one of the data shoud be 255.	
				Specification Video colour temperature (Cool) x=0.270±0.005 y=0.275±0.005	

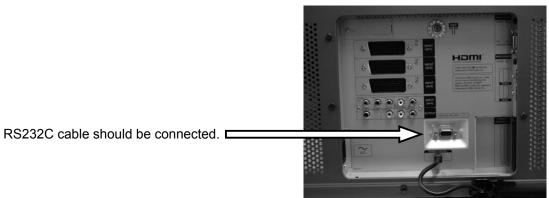
	Item	Video Colour Tempera	ture	Adjustment (Normal)
	Pre	eparation		Procedure
(1)	Set signal generat All White (Window		(1)	Perform the following adjustment with the remote control.
(2)	Component signal Video level : 0.700 Sync level : 0.300 Setup level : 0V	OVp-p	(2)	Set the CRT Colour Analyzer (CA-100) at the centre of the panel.
(3)	Check that Picture mode.	Menu is set as [RESET]	(3)	Ensure that service adjustment menu (sub) No. 3, 4, 5 are all set as 255.
(4)	Set into Factory Ad	djustment mode.	(4)	After receiving the video signal, step down the two (or one) among adjustment No. 3, 4, 5 and adjust the values as shown below.
				(Note) At least one of the data should be 255.
				<specification> Video color Colour temperature (Normal) x=0.285±0.005 y=0.293±0.005</specification>

Item Video Colour Temperature Adjustment (Warm)					
Preparation				Procedure	
(1)	Set signal genera All White (Window	•	(1)	Perform the following adjustment with the remote control.	
(2)	Component signal Video level: 0.70 Sync level: 0.30 Setup level: 0V	00Vp-p	(2)	Set the CRT Colour Analyzer (CA100) at the centre of the panel.	
(3)	Check that Picture mode.	e Menu is set as [RESET]	(3)	Ensure that service adjustment menu (submenu) No. 6, 7, 8 are all set as 255.	
(4)	Set into Factory A	djustment mode.	(4)	After receiving the video signal, step down the two (or one) among adjustment No. 6, 7, 8 and adjust the values as shown below.	
				(Note) At least one of the data should be 255.	
				<specification> Video Colour temperature (Warm) x=0.314±0.01 y=0.327±0.01</specification>	

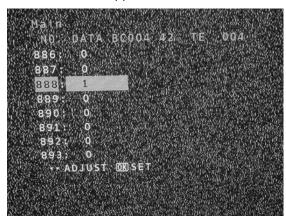
Item Video Colour Temperatu			ure	ure Adjustment (B&W)	
Preparation			Procedure		
(1)	Set signal generator output as All White (Window ratio: 100%).		(1)	Perform the following adjustment with the remote control.	
(2)	(2) Component signal (480i) Video level : 0.700Vp-p Sync level : 0.300Vp-p Setup level : 0V		(2)	Set the CRT Colour Analyzer (CA-100) at the centre of the panel.	
(3)	Check that Picture Menu is set as [RESET] mode.		(3)	Ensure that service adjustment menu (sub menu) No. 9, 10, 11 are all set as 255.	
(4)	Set into Factor	y Adjustment mode.	(4)	After receiving the video signal, step down the two (or one) among adjustment No. 9, 10, 11 and adjust the values as shown below.	
				(Note) At least one of the data should be 255. <pre></pre>	

## • Procedure of re-install new software of Digital module software for 42PD9700

1. RS232C cable should be connected to RS232C terminal of TV set.



- 2. TV set turn ON.
- 3. Press hold [S.MODE], [YELLOW] and [Blue] button of remote controller until appears the service menu.
- 4. Set data of No 888 from [0] to [1] then press [OK] button.

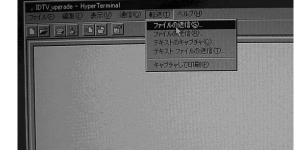


- 5. RS232C cable should be connected between TV set and PC.
- 6. Appeared programe menu after double crick Hyper Terminal I con.

Condition of Transfer

Bit rate: 115200

Data bit:8
Parity: none
Stop bit:1
Flow: none



- 7. Crick "Transfer" then select "File send".
- 8. Select required software file in the folder.



- 9. Turn Off the TV set.
- 10. Click "Send" in the "File send" menu.

コナルの送信
フォルグ C¥EURO PW3\_DTT\_ROM\*DTT\_ROM\_UK\*V10
ファイル名(E)
C¥EURO PW3\_DTT\_ROM\*DTT\_ROM\_UK\*V10¥man\_ro
プロトコル(P)
TK Xmodem

送信(S) 閉じる(C) キャンセル

- 11. Turn On the TV set.
- 12. Screen will change and digit of Packet window will start from "0".



13. Should be wait until screen has "OK" information.

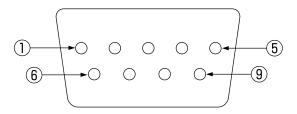


- 14. Disconnect RS232C cable.
- 15. Press hold [S.MODE], [YELLOW] and [Blue] button of remote controller until appears the service menu
- 16. data of no.888 should be change back from [1] to [0] then press [OK] button.
- 17. Turn Off the TV set.

After confirmation of a soft version is necessary.

SERIAL(RS-232C) Connector pin specification.

pin	signal name	note
1	NC	
2	RXD0	Data from PC
3	TXD0	Data to PC
4	NC	
5	GND	Set GND $\leftrightarrow$ PC GND
6	NC	
7	NC	
8	NC	
9	NC	



FRONT VIEW(Female)

# 7. Troubleshooting

## ● How to get to Burn-in mode

This mode displays the test patterns of some single color raster in turn. These signals are from built-in generator of panel. So it can be presumed that maybe the panel has some trouble when the screen of Burn-in mode is abnormal.

Using the R-side control buttons with the set turned off (standby) can activate this mode.

Press the SUB-POWER( $\bigcirc$ ) button, INPUT SELECT( $\bigcirc$ ) button and VOLUME DOWN( $\square$ ) button at the same time, and hold for more than 5 seconds.

The set turns on with single color raster and the OSD of [BURN IN: ON].

To escape from this mode, press the SUB-POWER( $\bigcirc$ ) button, INPUT SELECT( $\bigcirc$ ) button and  $\blacktriangle$  button at the same time, and hold for more than 5 seconds. Burn-in mode will be released.

## • How to recover the remote and R-side control key function

If remote and R-side control key cannot operate after miss set special function by front keys, these functions can recover by below method.

Press the SUB-POWER(⑸) button, INPUT SELECT(⑤) button and ▼ button at the same time, and hold for more than 5 seconds.

The set turns on the service menu mode.

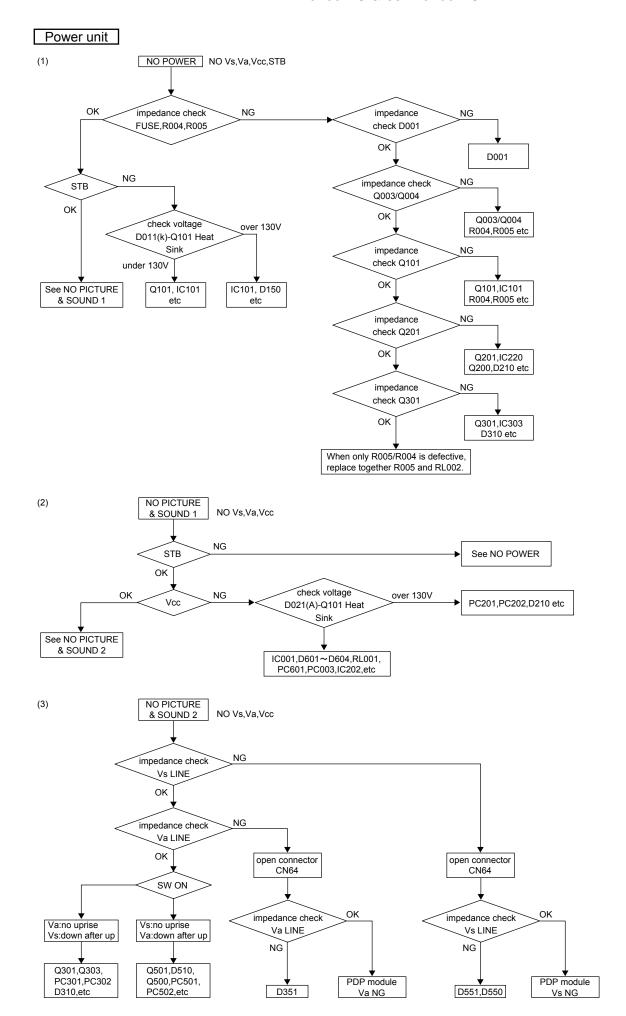
Select No.721 and No.722 then each data set from [0] to [1].

Or

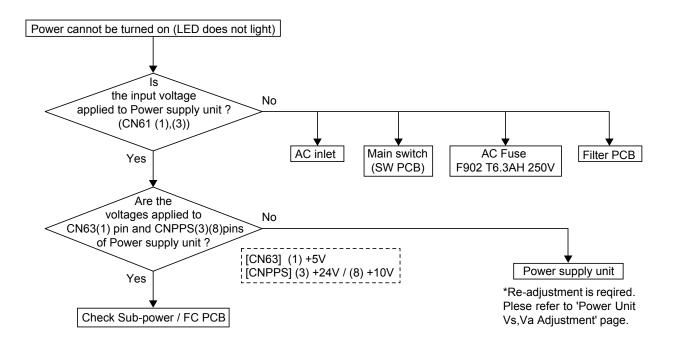
Press the SUB-POWER(إل) button and ▼ button at the same time, and hold for more than 5 seconds

## • How to check method of the use accumulation time for panel.

Select No.894 of Service Adjustment Menu.



Power



Sub-power PCB

#### Power

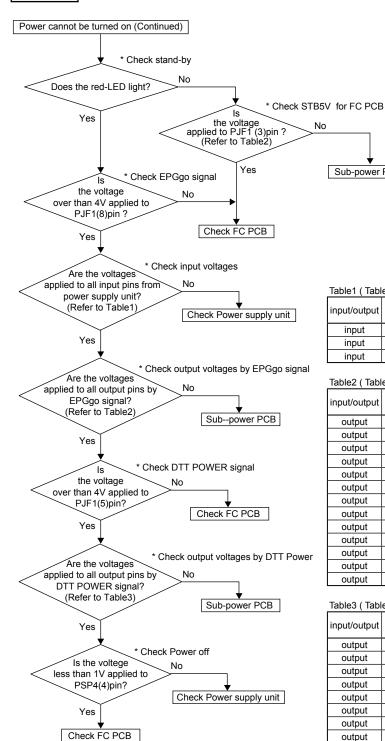


Table1 (Table of input from Power supply unit)

input/output		signal	42PD9700U/C		
	inpul/output	năme	pin No	value(V)	From/To
	input	10V	PSP1 (7)and(8)	+9.9~11.6	Power supply unit
	input	24V	PSP1 (3)and(4)	+23.75~26.25	Power supply unit
	input	STB5.8V	PSP4 (1)and(2)	+5.5~6.1	Power supply unit

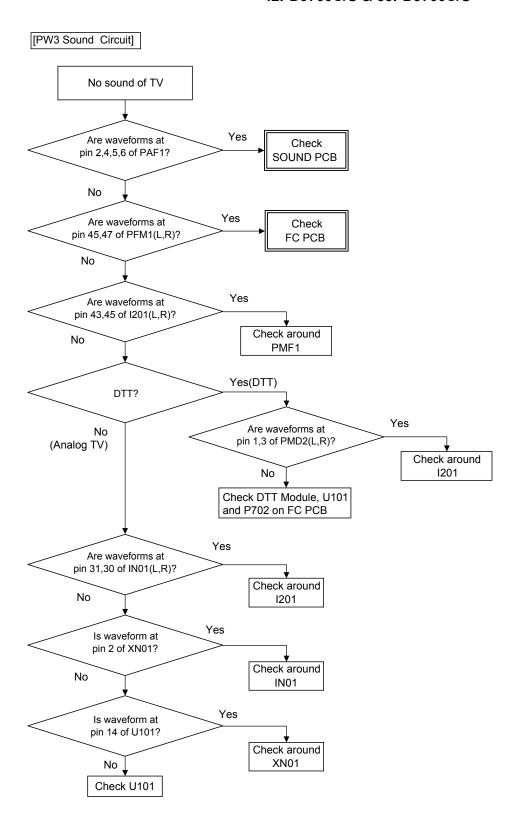
Table2 (Table of output by EPGgo signal)

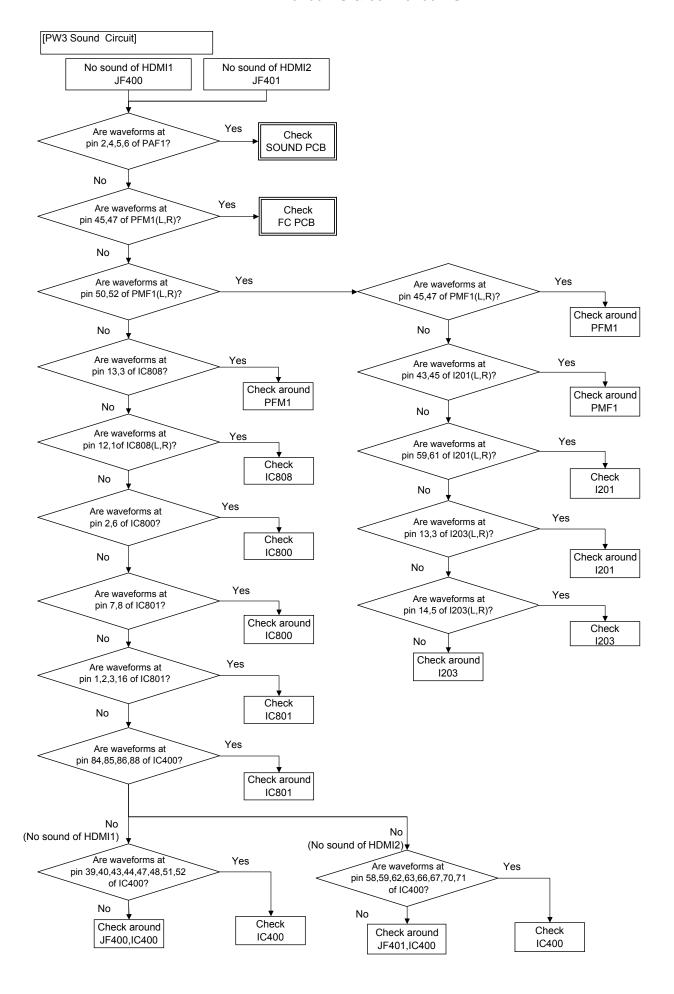
innut/outout	signal	42PD9700U/C		
input/output	năme	pin No	value(V)	From/To
output	5.5V	PJB1 (1)and(2)	+5.4~5.9	Bridge madia unit
output	30V	PJM1 (1)	+31.3~33.6	Main PCB
output	10V	PJM1 (3)	+9.9~11.1	Main PCB
output	6V	PJM1 (5)	+5.4~5.9	Main PCB
output	STB5V	PJM1 (7)	+4.8~6.1	Main PCB
output	S3.3V	PJM1 (9)	+3.13~3.47	Main PCB
output	10V	PJF1 (1)	+9.9~11.1	FC PCB
output	STB5V	PJF1 (3)	+4.8~6.1	FC PCB
output	6V	PJF2 (1)and(2)	+5.4~5.9	FC P <b>B</b> B
output	3.3V	PJF2 (5)and(6)	+3.13~3.47	FC PCB
output	1.8V	PJF2 (9)to(11)	+1.71~1.89	FC PCB
output	3.3V	PJA1 (1)	+3.13~3.47	Audio PCB
output	+25V	PJA1 (7)to(9)	+23.75~26.25	Audio PCB

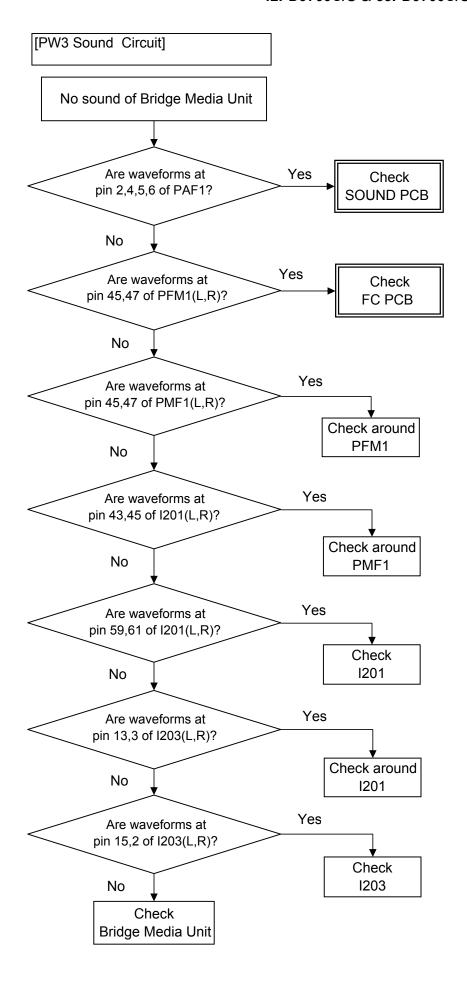
Table3 (Table of output by DTT POWER signal)

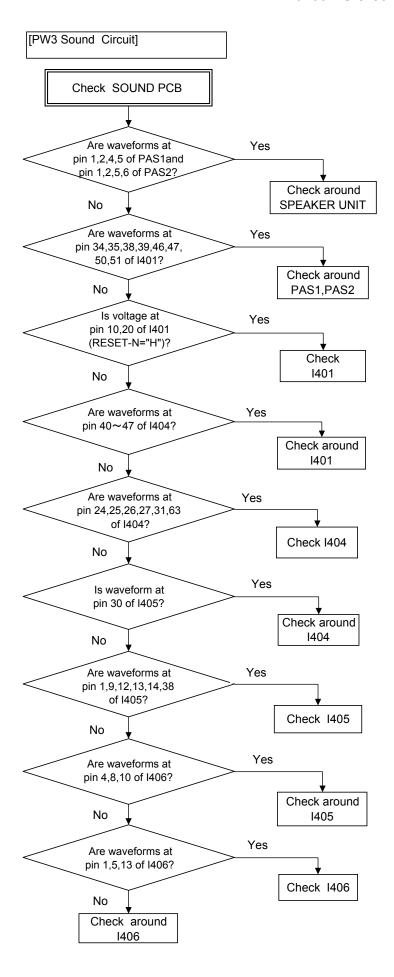
Tables (Table of output by DTTT OWER signal)					
input/output	signal name	42PD9700U/C			
iiipui/output		pin No	value(V)	From/To	
output	5V	PJM2 (2)	+4.75~5.25	Main PCB	
output	9V	PJM2 (4)	+8.55~9.45	Main PCB	
output	12V	PJM2 (6)	+11.75~12.25	Main PCB	
output	2.5V	PJD1 (1)	+2.35~2.65	DTT PCB	
output	33V	PJD1 (2)	+30~33	DTT PCB	
output	12V	PJD1 (3)	+11.75~12.25	DTT PCB	
output	5V	PJD1 (6)	+4.75~5.25	DTT PCB	
output	3.3V	PJD1 (7)	+3.15~3.45	DTT PCB	

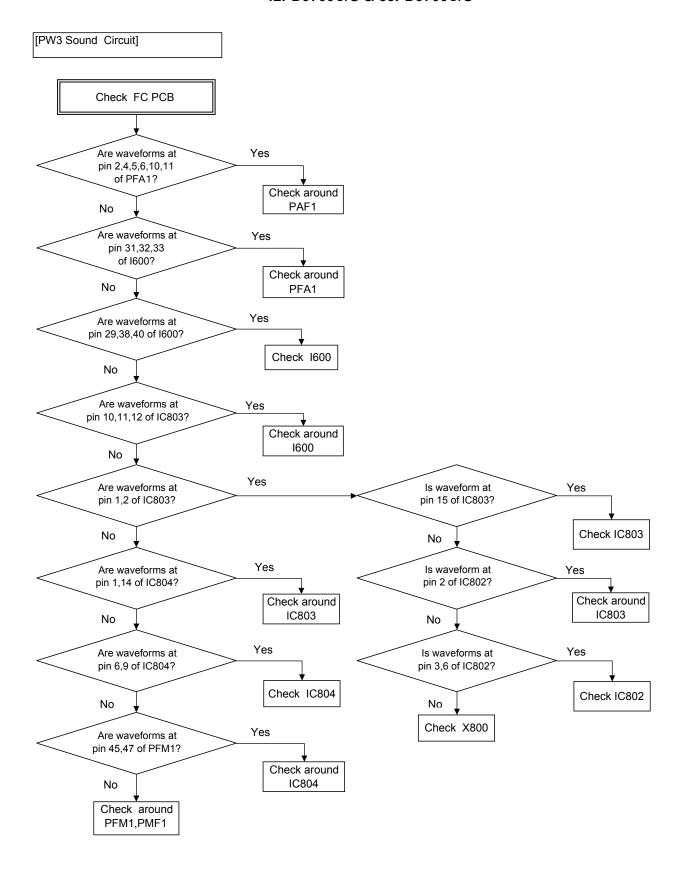
Note 1) GND(0V) is R508P or R509P of chip Jumper or the frame near Sub-power PCB.



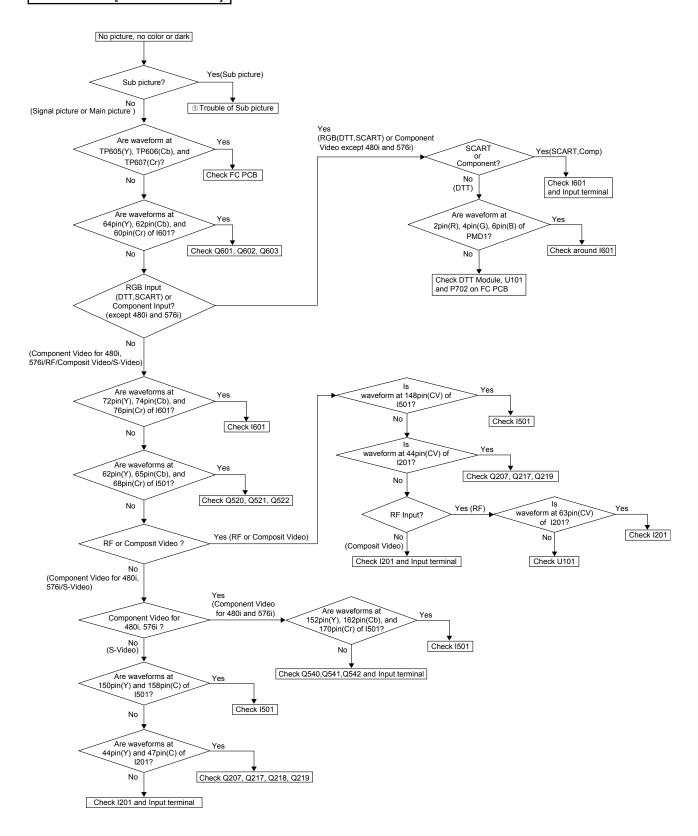




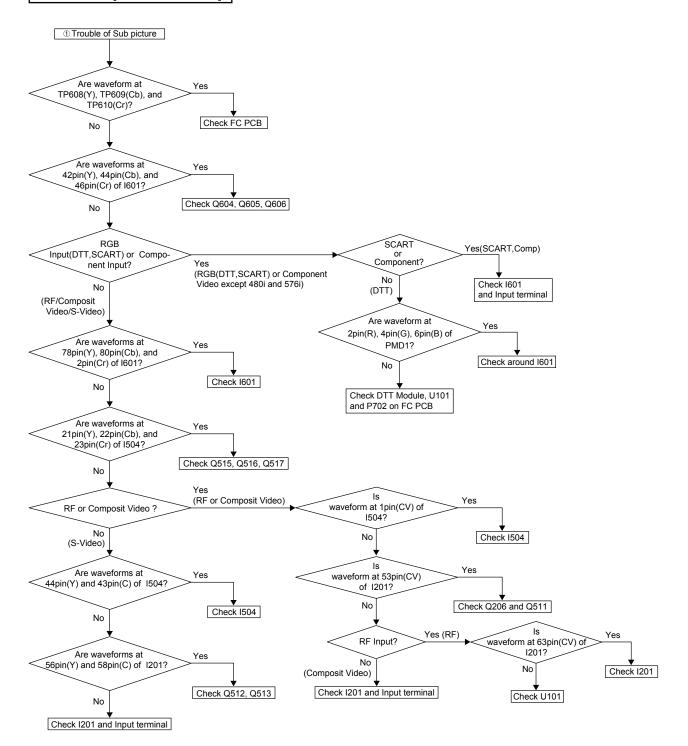




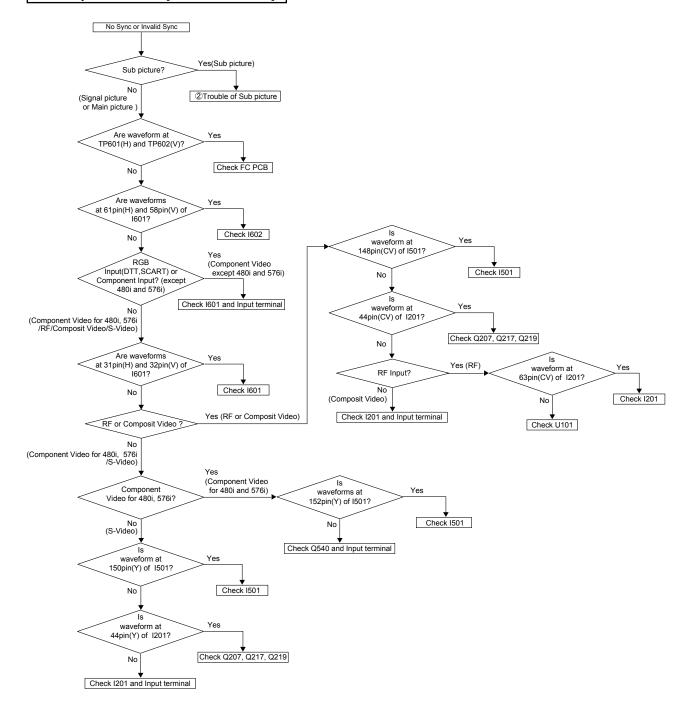
## Main Picture [Main PCB Circuit]



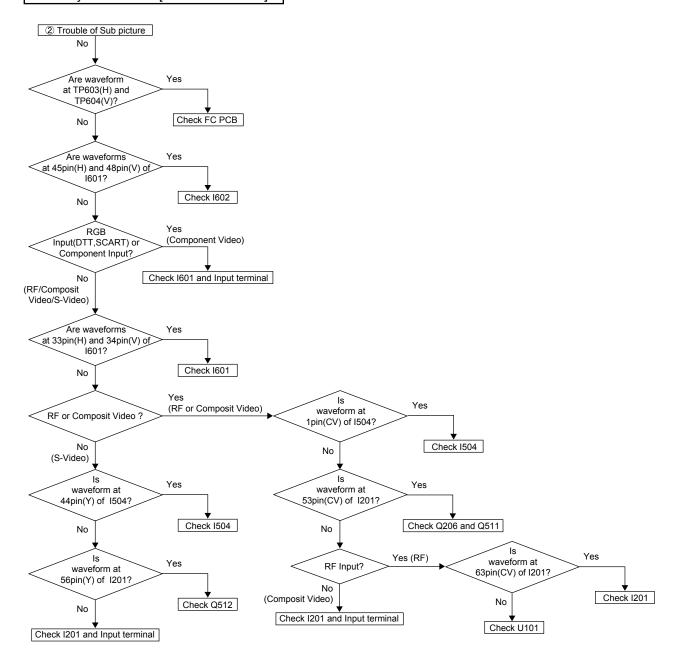
## Sub Picture [Main PCB Circuit]



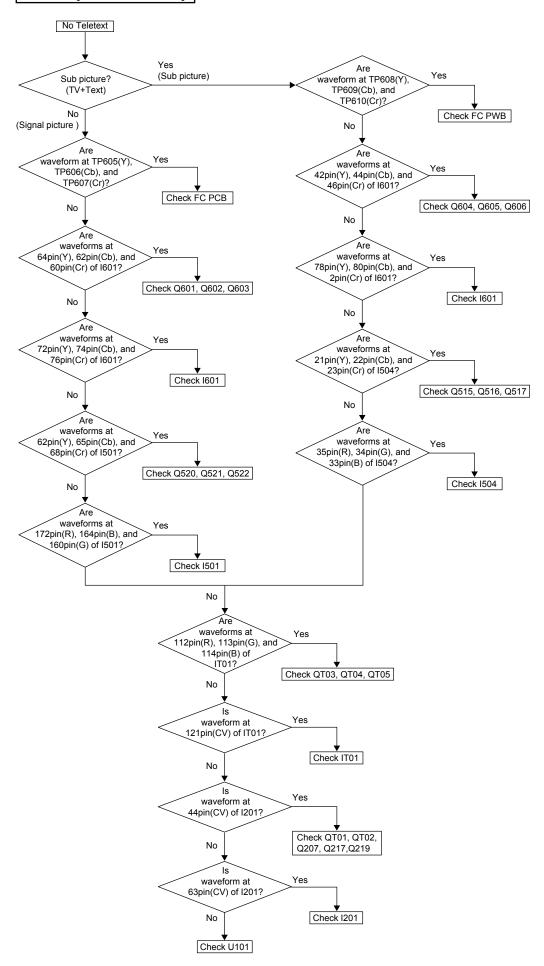
## Main Syincronization [Main PCB Circuit]



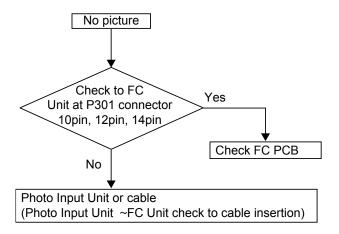
## Sub Syncronization [Main PCB Circuit]



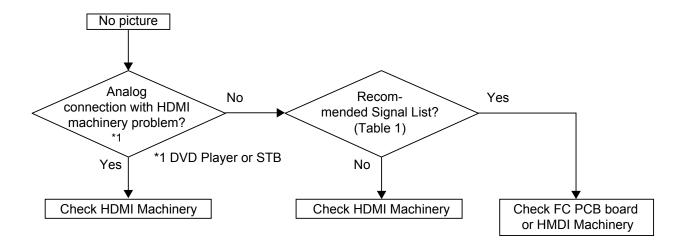
## Teletext [Main PCB Circuit]



## Photo Input Unit



## HDMI Picture [FC PCB Circuit]



## Recommended Signal List

## With HDMI input

	Signal mode			Horizontal	Dot clock	
No.	Signal Name	Resolution	Vertical frequency (Hz)	frequency (kHz)	frequency (MHz)	Remarks
1	VGA	640 X 480	59.94	31.47	25.18	EIA-861B
2	576i	720(1440) X 576	50.00	15.63	27.00	EIA-861B
3	480i	720(1440) X 480	59.94	15.73	27.00	EIA-861B
4	576p	720 X 576	50.00	31.25	27.00	EIA-861B
5	480p	720 X 480	59.94	31.47	27.00	EIA-861B
6	1080i/50	1920 X 1080	50.00	28.13	74.25	EIA-861B
7	1080i/60	1920 X 1080	60.00	33.75	74.25	EIA-861B
8	720p/50	1280 X 720	50.00	37.50	74.25	EIA-861B
9	720p/60	1280 X 720	60.00	45.00	74.25	EIA-861B

Table 1

# 8. Self-Diagnosis Function

This chassis has 2 modes of self-diagnosis function.

- (1) PDP panel check mode: It indicates the one latest record of the PDP panel failure with blinking of the power indication light (LED).
- (2) Signal circuit check mode: It indicates the check result on some points of the signal circuit and the history of them with On-Screen Display (OSD).

## PDP panel self-diagnosis function

This function is for a PDP panel failure with no picture.

To enter to this Self-Diagnosis mode, follow the next steps:

## Preparation:

- 1) The Power Cord should be connected to AC line and the Main Power switch should be turned on.
- 2) Turn the power off by the SUB-POWER((b)) button of the monitor or the remote control.

## Procedure:

- 1) Press the SUB-POWER(⑸) button and ▼ button on the bottom of the monitor at the same time, and keep it for more than 5 seconds after the power turned on.
- 2) It generates red blinking series of the power indicator light.
- 3) Any operation would cancel the Self -Diagnosis mode.
- 4) The next table shows the PDP PCB in which failure most probably would be allocated according to the number of blinks.

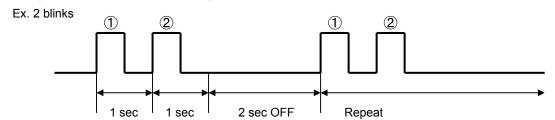
Number of red blinks	Presumed failing PCB
of power indication light	of PDP panel
1	Logic
2	X-SUS
3	Y-SUS, SDM
4	X-SUS, Y-SUS, SDM, PSU
5	ABUS, ADM, PSU
6	ADM temperature
7	ADM temperature
8	All of above-mentioned
	PCBs

SDM: Scan Driver Module
PSU: Power Supply Unit

ADM: Address Driver Module

Note) SDM is permanently contacted to glass part

[Blinking condition of power indication light]



## Signal circuit self-diagnosis function

This function is for the failure of the signal circuit, for example the phenomenon as below:

"Sometimes power turns off abnormally." "Sometimes picture disappears abnormally."

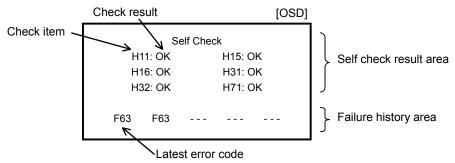
To enter to this Self-Diagnosis mode, follow the next steps:

## Preparation:

- 1) The Power Cord should be connected to AC line and the Main Power switch should be turned on.
- 2) Turn the power off by the SUB-POWER((b)) button of the monitor or the remote control.

## Procedure:

- 1) Press the SUB-POWER(⑸) button and ▲ button on the bottom of the monitor at the same time, and keep it for more than 5 seconds after the power turned on.
- 2) The monitor will be turned on, and it will display On-Screen Display of the Self-check result and the failure history as below.
- 3) Any operation would cancel the Self -Diagnosis mode.
- 4) The following table shows the OSD symbols and contents of failure PWB in which failure most probably would be allocated according to the number of blinks.



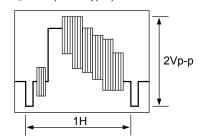
Code	stored up in failure history	Self checking item	Problem	Phenomenon	Cause
C10		_	No sync. (Snow noise)	OSD of "! Check Antenna" appears.	No connection of ANT cable Preset tuning is not yet
H11	_	0	Tuner problem	Cannot receive the main signal from antenna	Communication error of U101
H15	_	0	Composite video SW IC problem	Cannot receive picture and audio Cannot change input mode	Communication error of I201
H16	_	0	Component video SW IC problem	No component picture Cannot change input mode	Communication error of I601
H31	_	0	Color demodulator IC problem (sub)	Abnormal colour Dark picture	Communication error of I504
H32	_	0	3D separator ZC problem	Abnormal colour Dark picture / No picture	Communication error of I501
H71	_	0	HDMI IC problem	No picture	Communication error of I400
F63	0	_	I <sup>2</sup> C-bus latch problem	Cannot store setting data (Ex. Channel, Volume etc.)	SCL3/SDA3 latched up

If you clear history of failure, make FACTORY RESET: enter the factory setting mode; press the SUB-POWER(  $\bigcirc$ I) button, INPUT SELECT( $\bigcirc$ I) button and  $\triangle$  button on the bottom of the monitor at the same time. And keep it for more than 5 seconds after the power turned on.

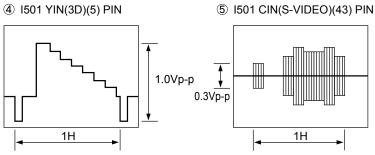
# 9. Basic circuit diagram

## Waveform

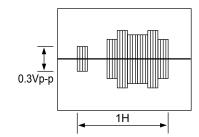
- ① I201(MAIN.V)(44) PIN
- ② I201(SUB.V)(53) PIN



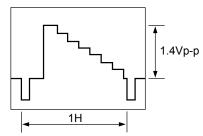
- ③ I501 YIN(S-VIDEO)(44) PIN
- 4 I501 YIN(3D)(5) PIN



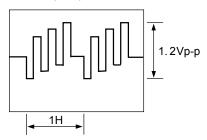
6 I501 CIN(3D)(7) PIN



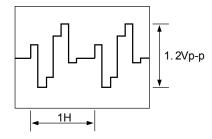
- ⑦ TP65(MY)
- 8 TP68(SY)



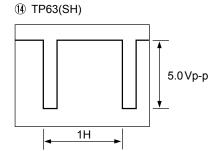
- 9 TP66(MPB)
- ① TP69(SPB)



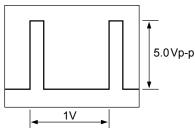
- ① TP67(MPR)
- 12 TP6A(SPR)



(13) TP61(MH)

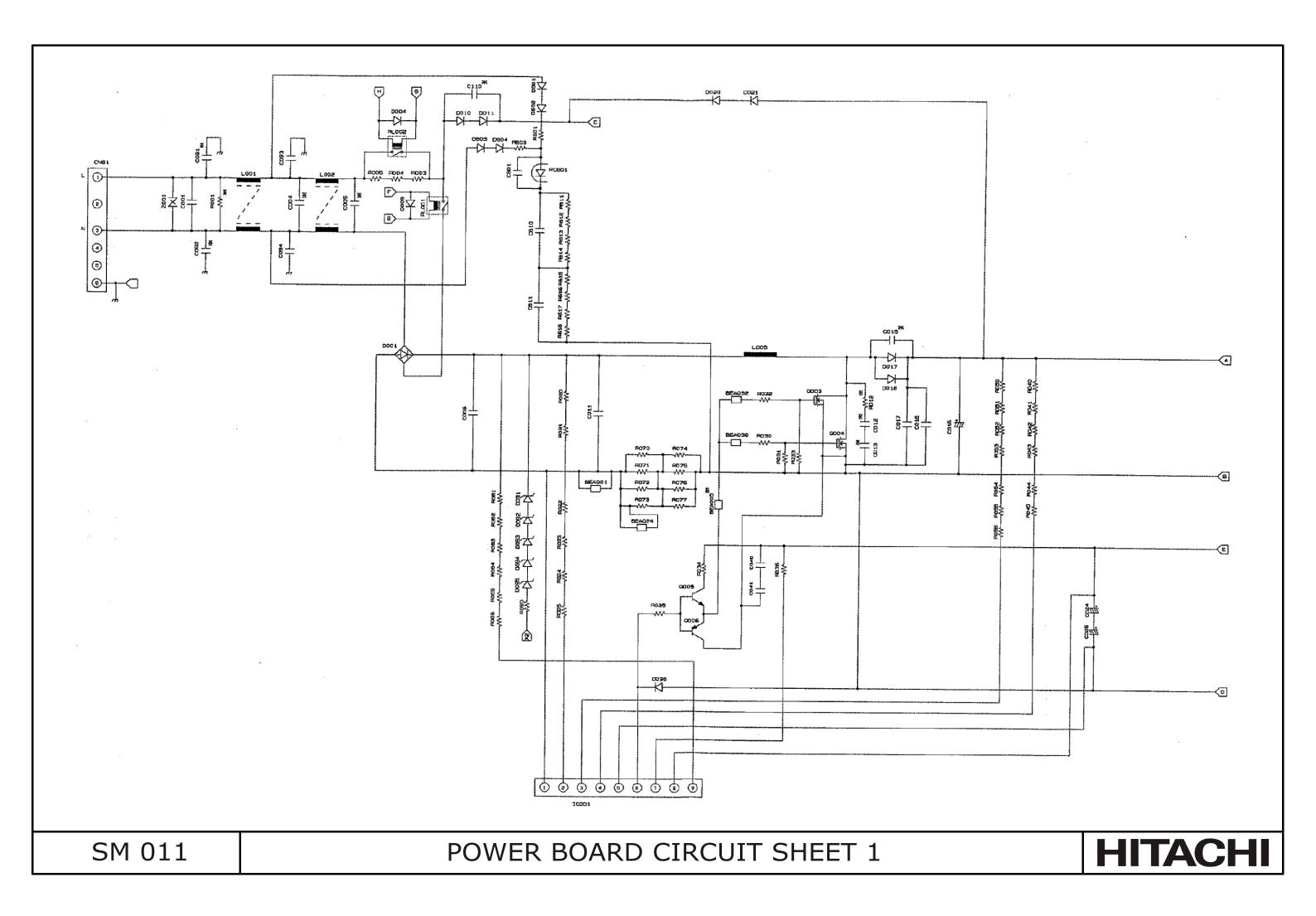


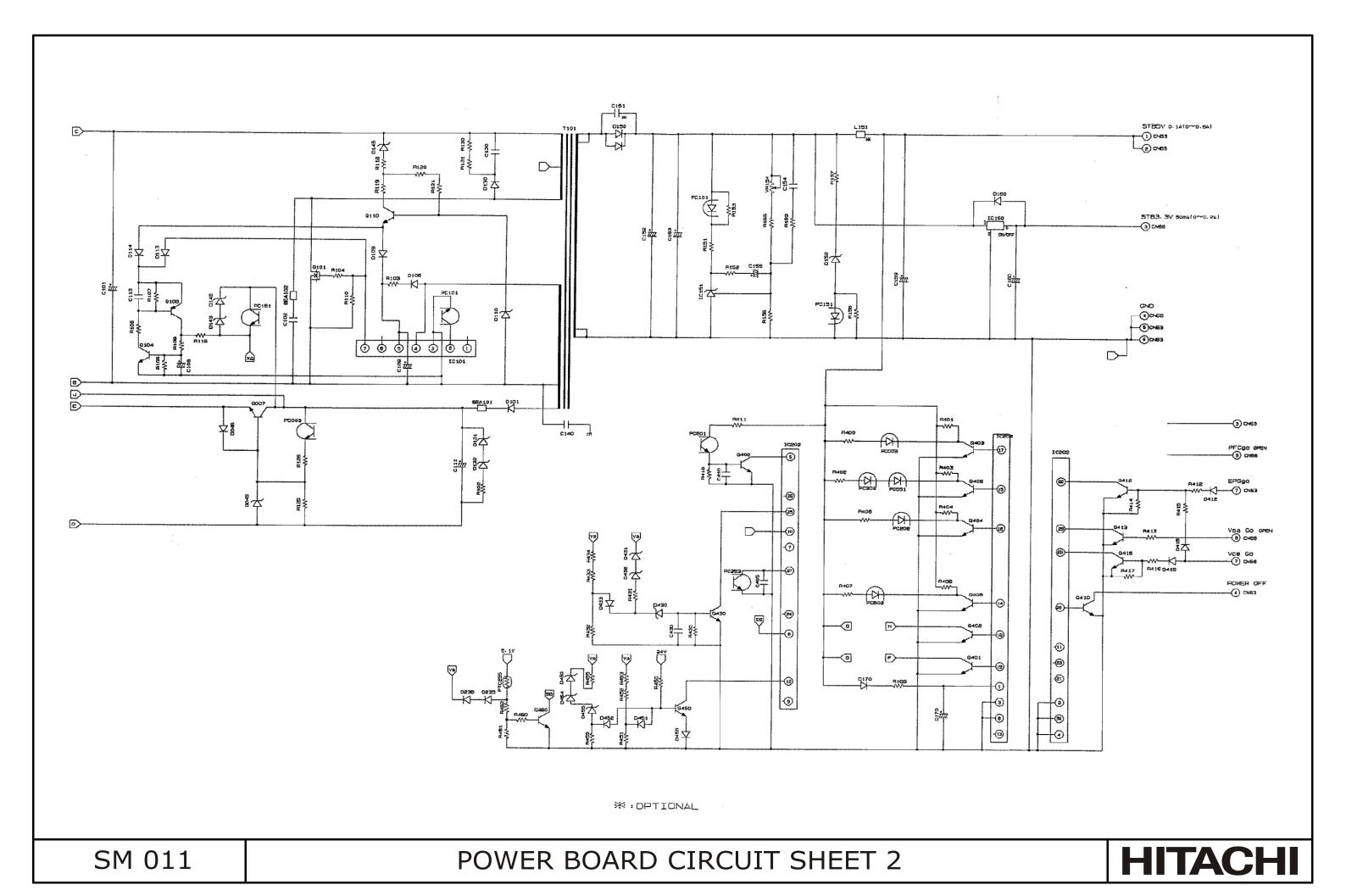
- (15) TP62(MV)
- 16 TP64(SV)

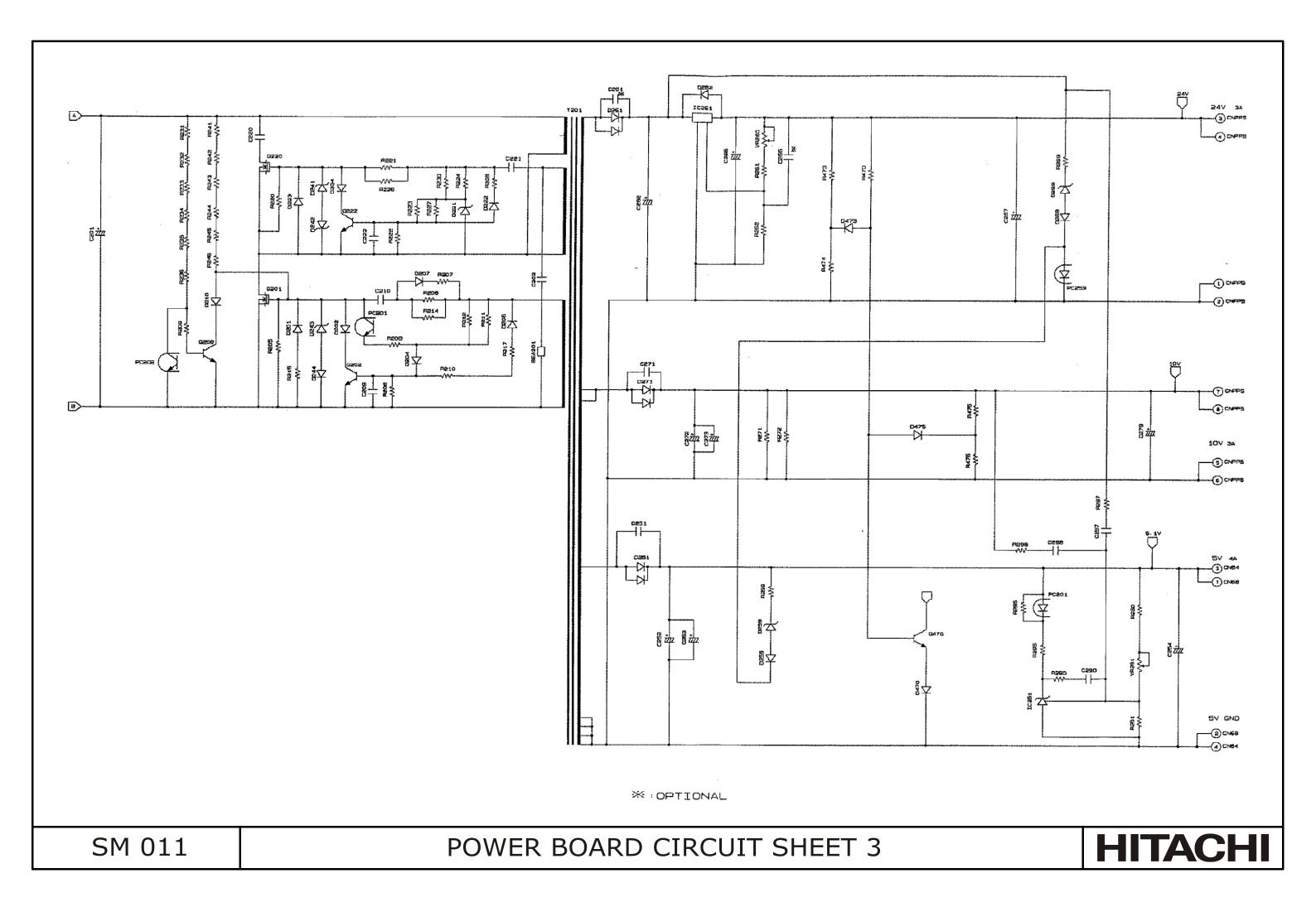


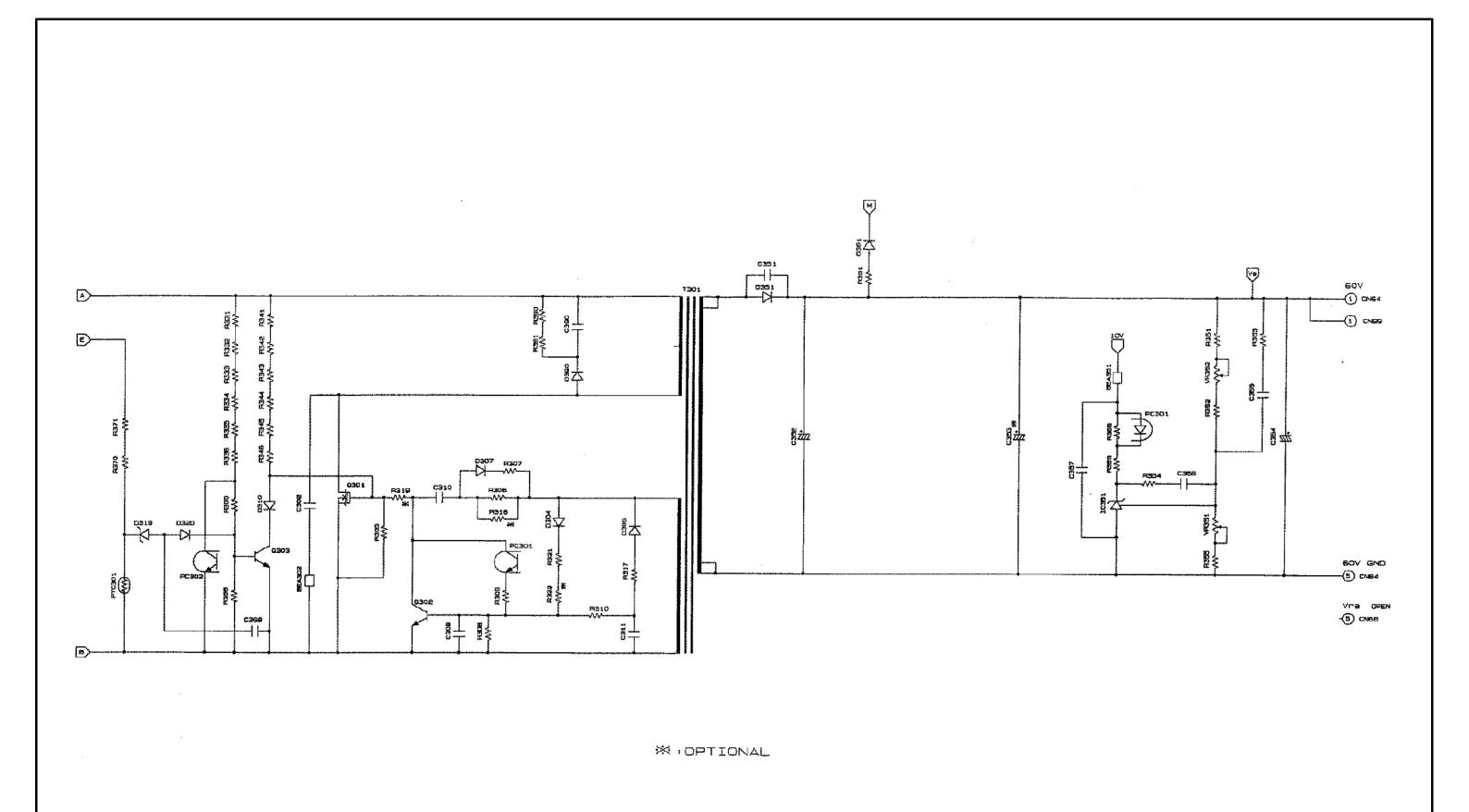
# **Basic circuit diagram list**

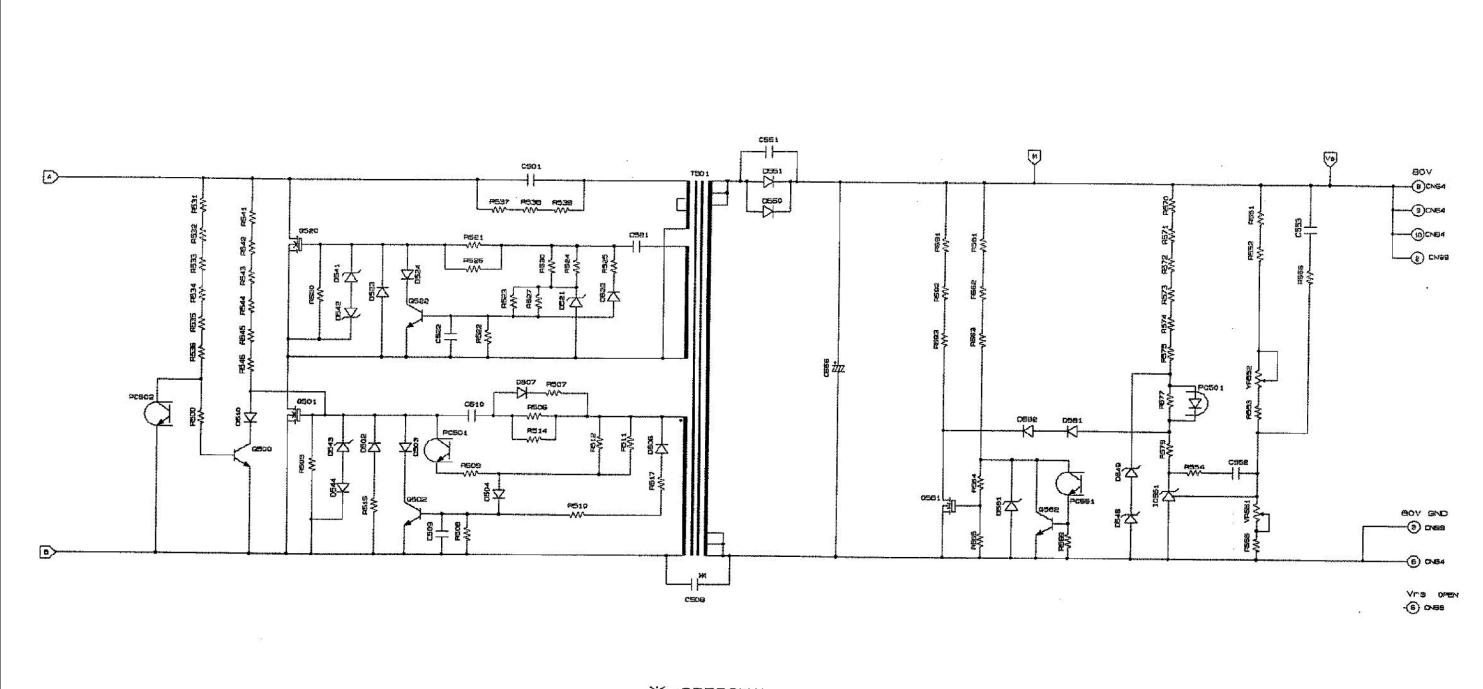
PCB assembly Power Unit 1	
PCB assembly Power Unit 2	
PCB assembly Power Unit 3	59
PCB assembly Power Unit 4	60
PCB assembly Power Unit 5	
PCB assembly MAIN 1	
PCB assembly MAIN 2	
PCB assembly MAIN 3	64
PCB assembly MAIN 4	
PCB assembly MAIN 5	
PCB assembly LED PDP	
PCB assembly SWIVEL	
PCB assembly POWER□SW□	
PCB assembly Filter & Terminal	
PCB assembly Sub□POWER□	
PCB assembly CONTROL□	
PCB assembly SOUND □	
PCB assembly FC 1	
PCB assembly FC 2	
PCB assembly FC 3□	
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PCB assembly FC 6	
PCB assembly FC 7	
PCB assembly FC 8	
PCB assembly FC 9	79

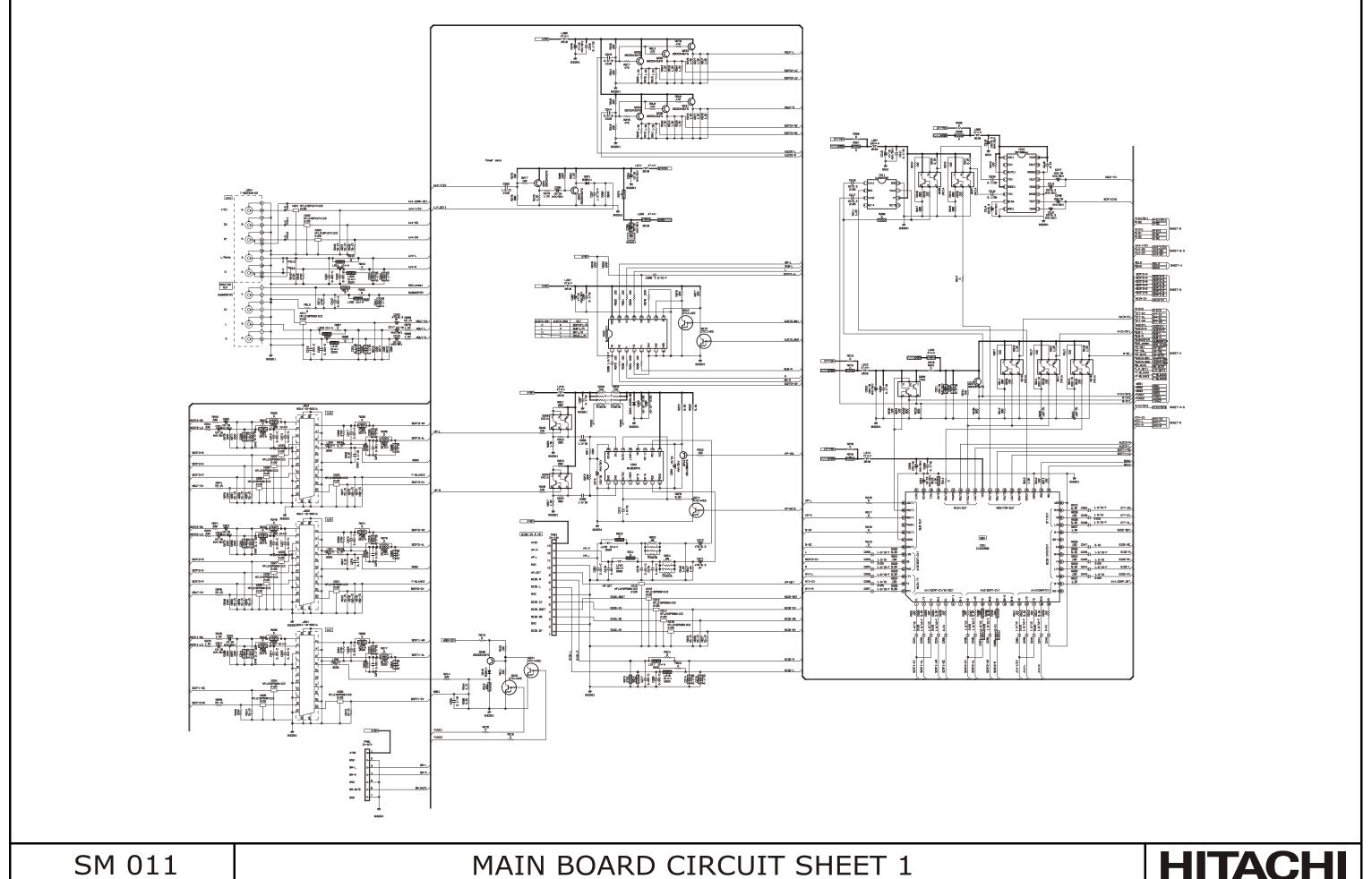


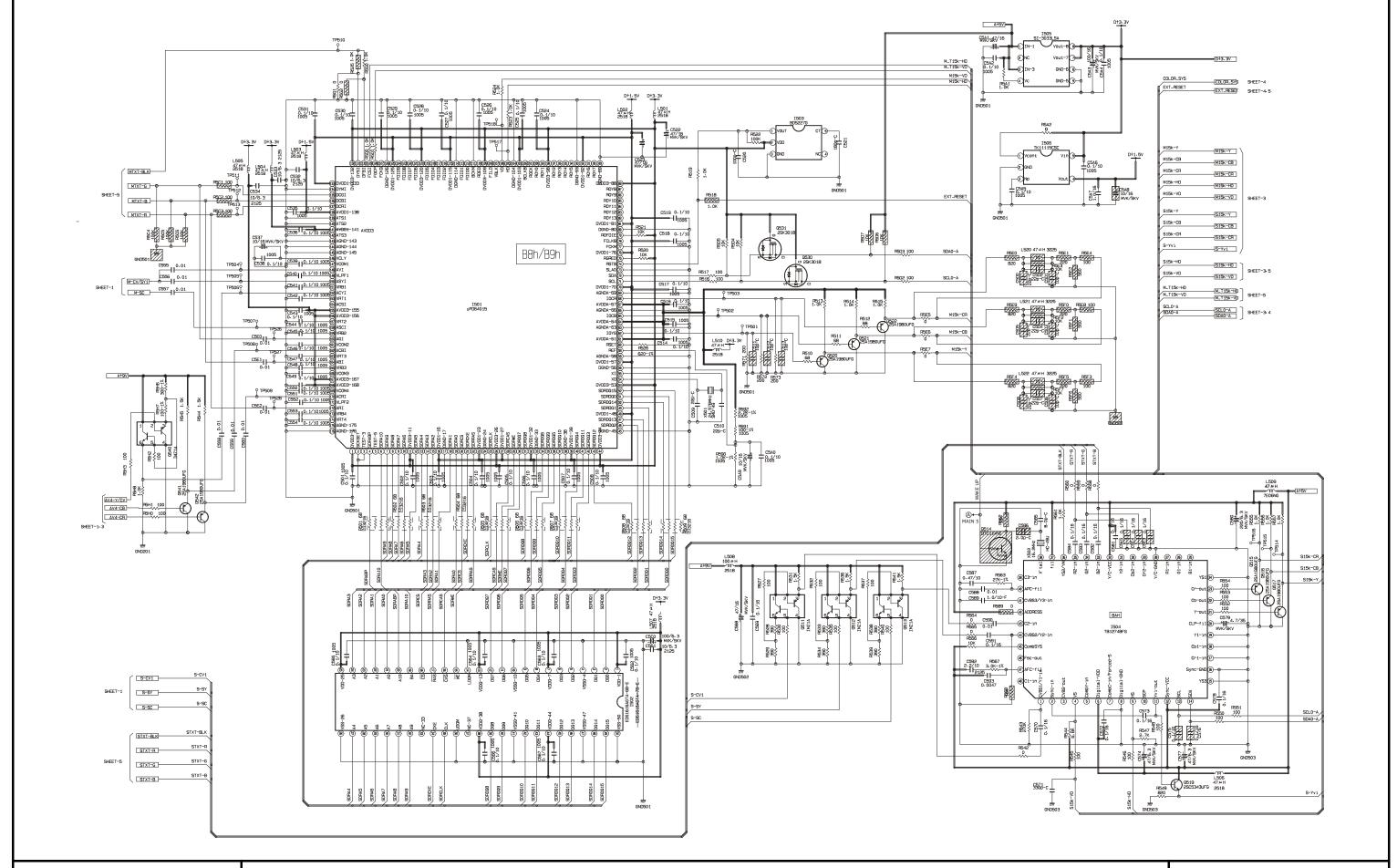


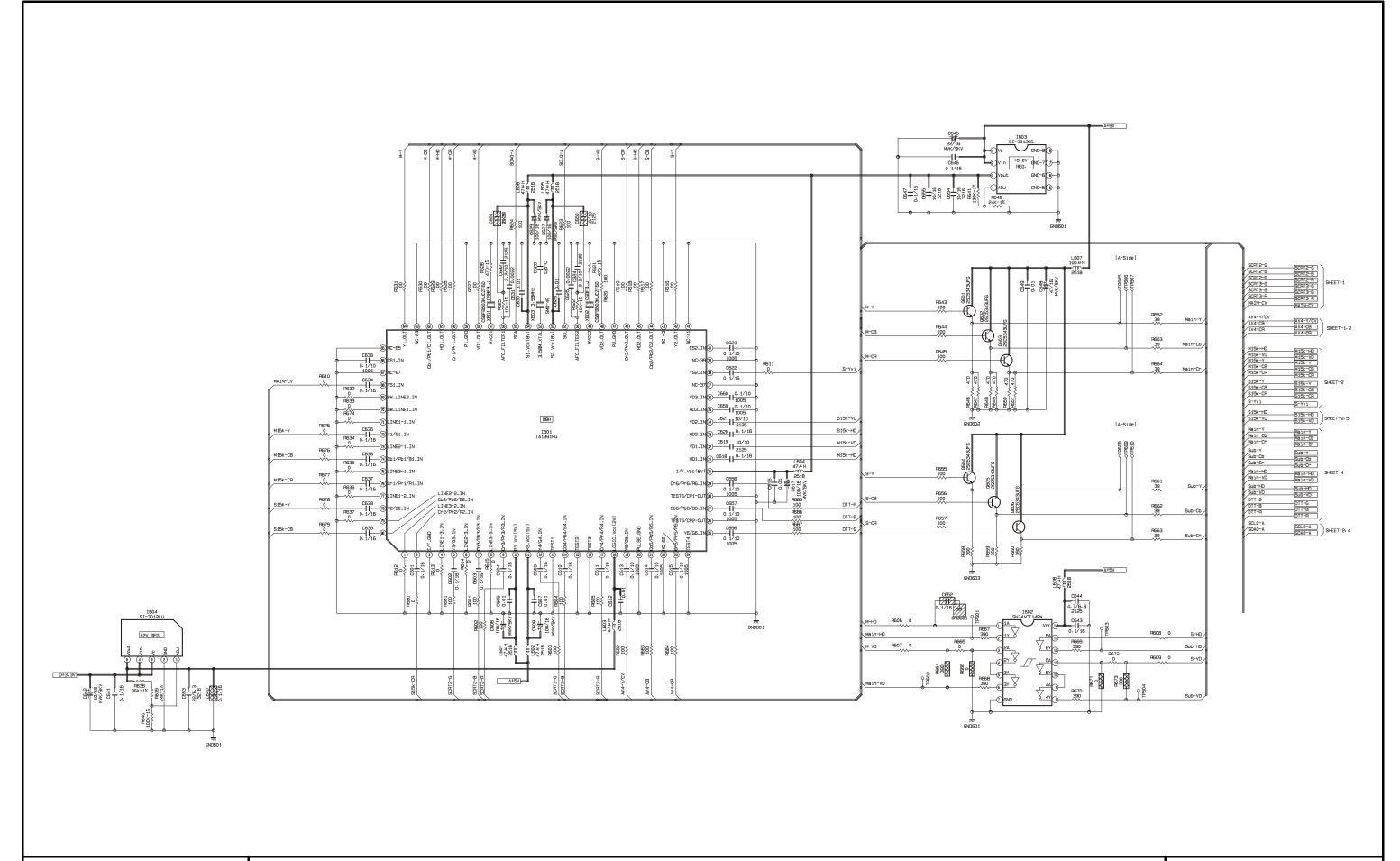


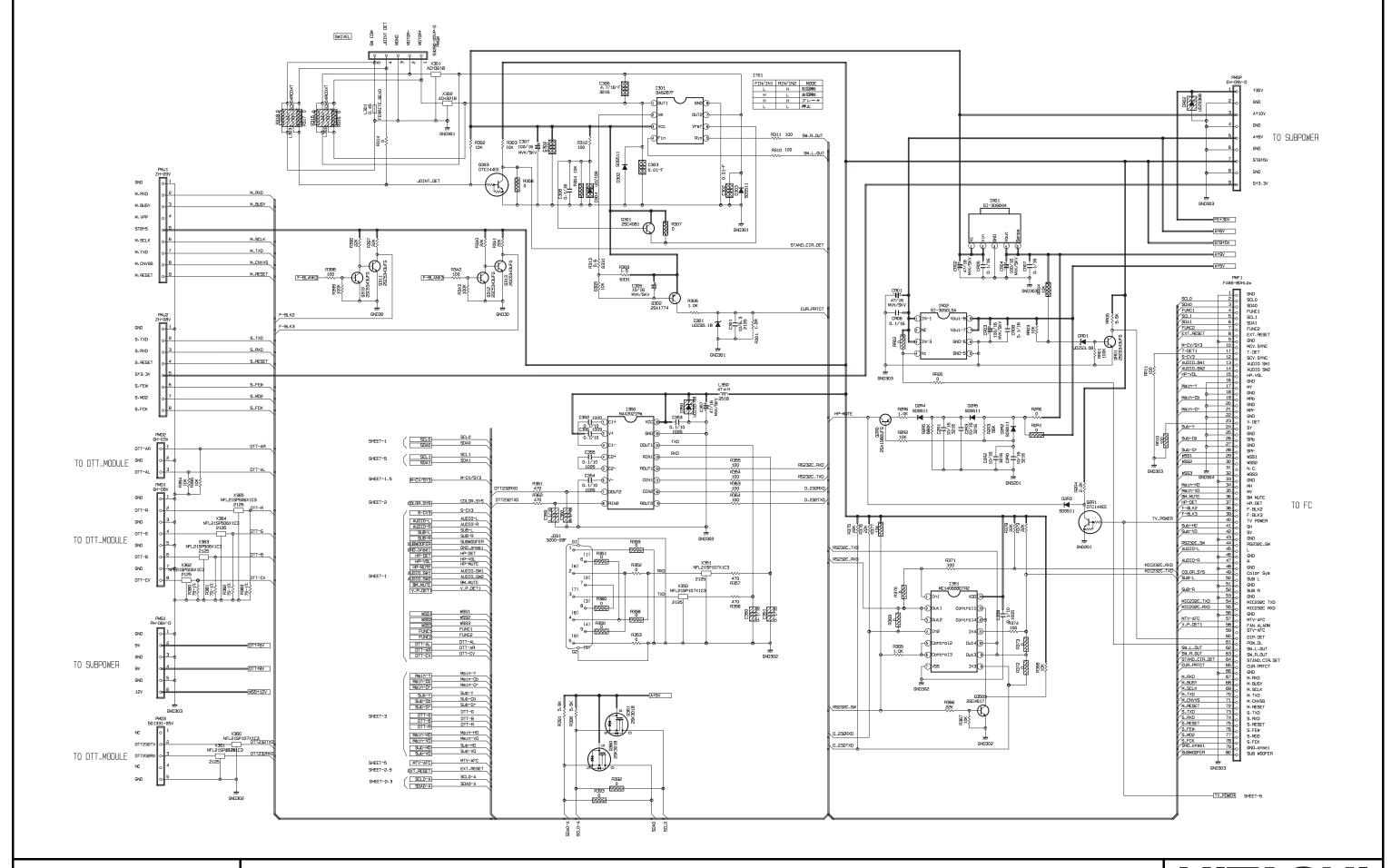


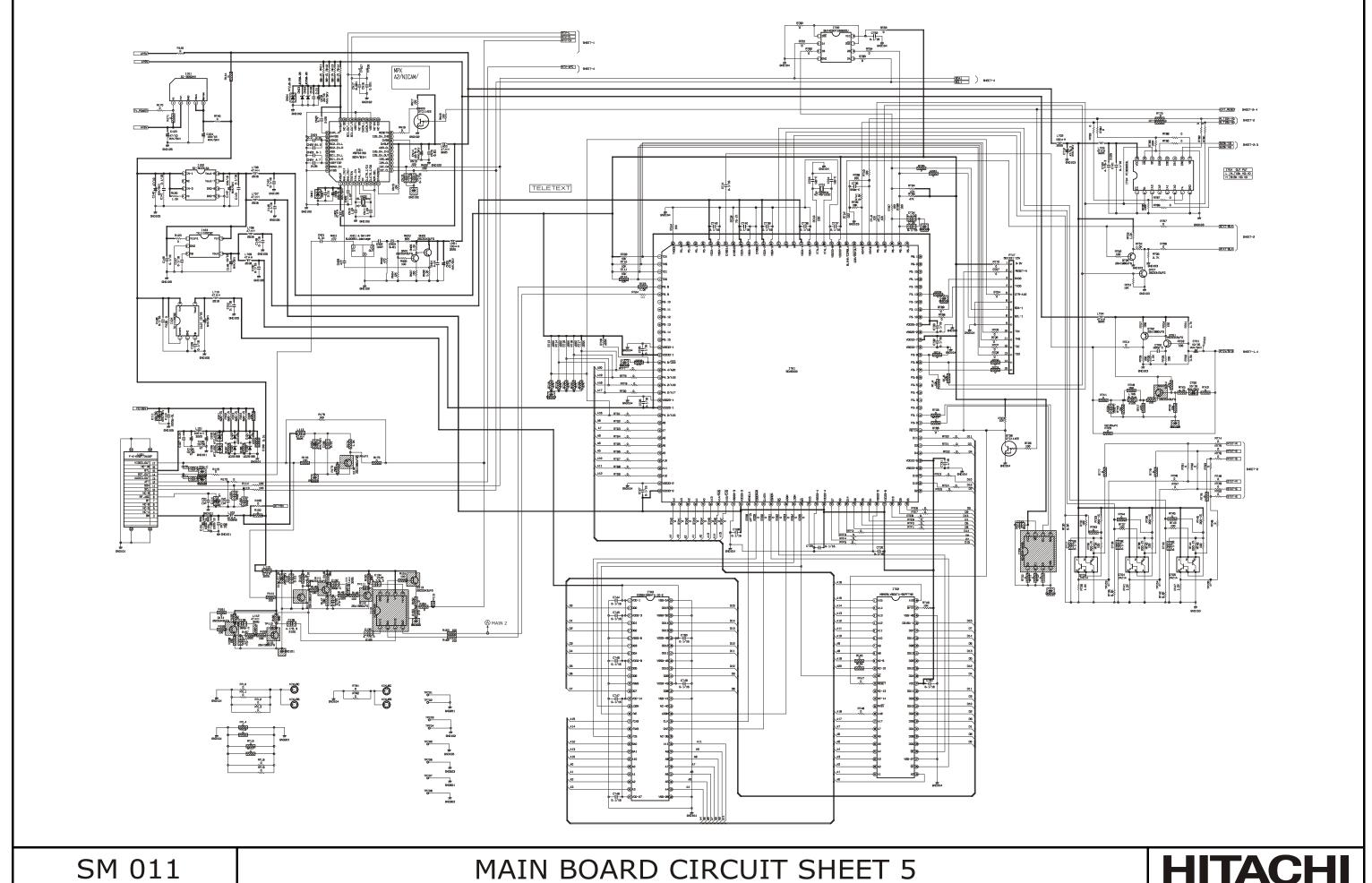


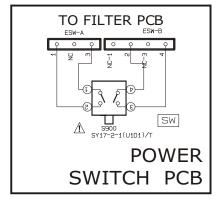


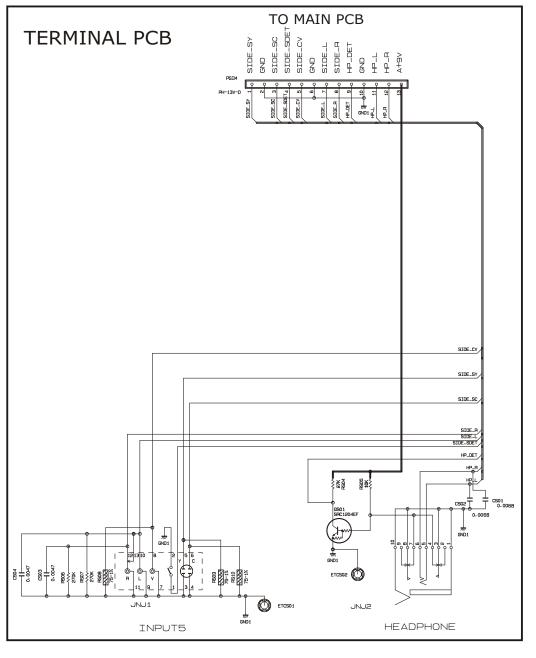


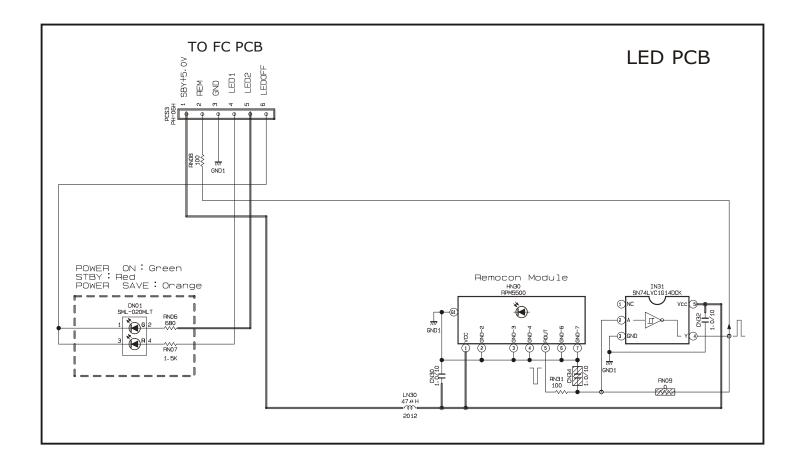


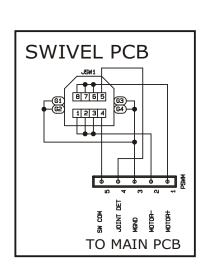


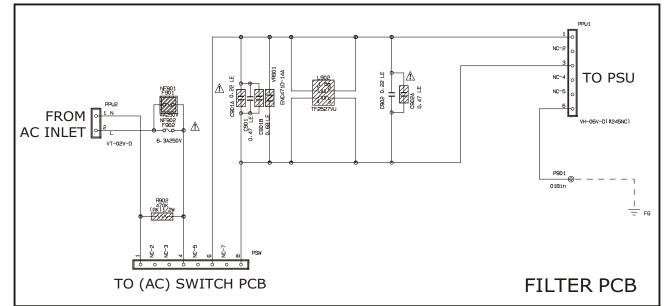




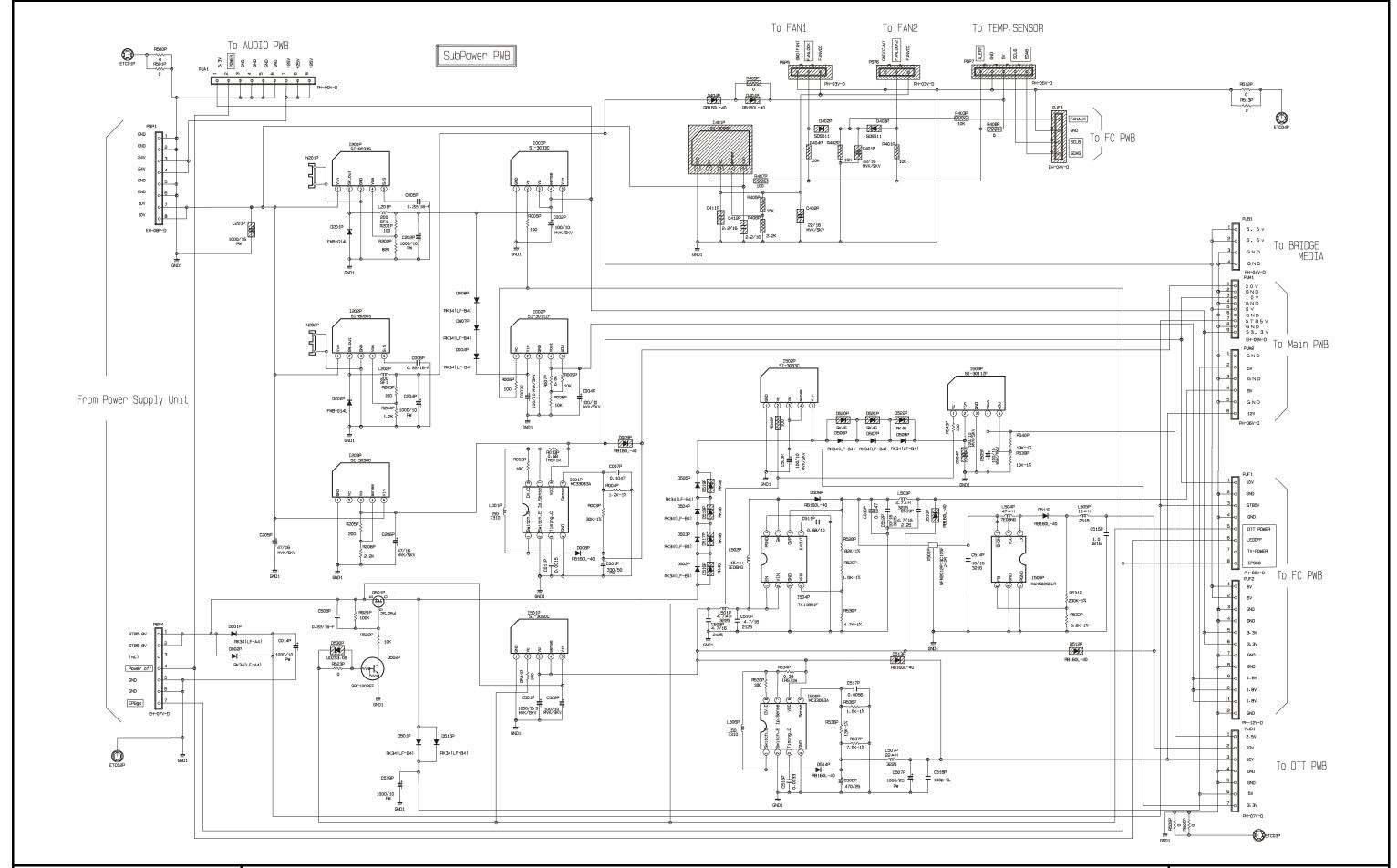




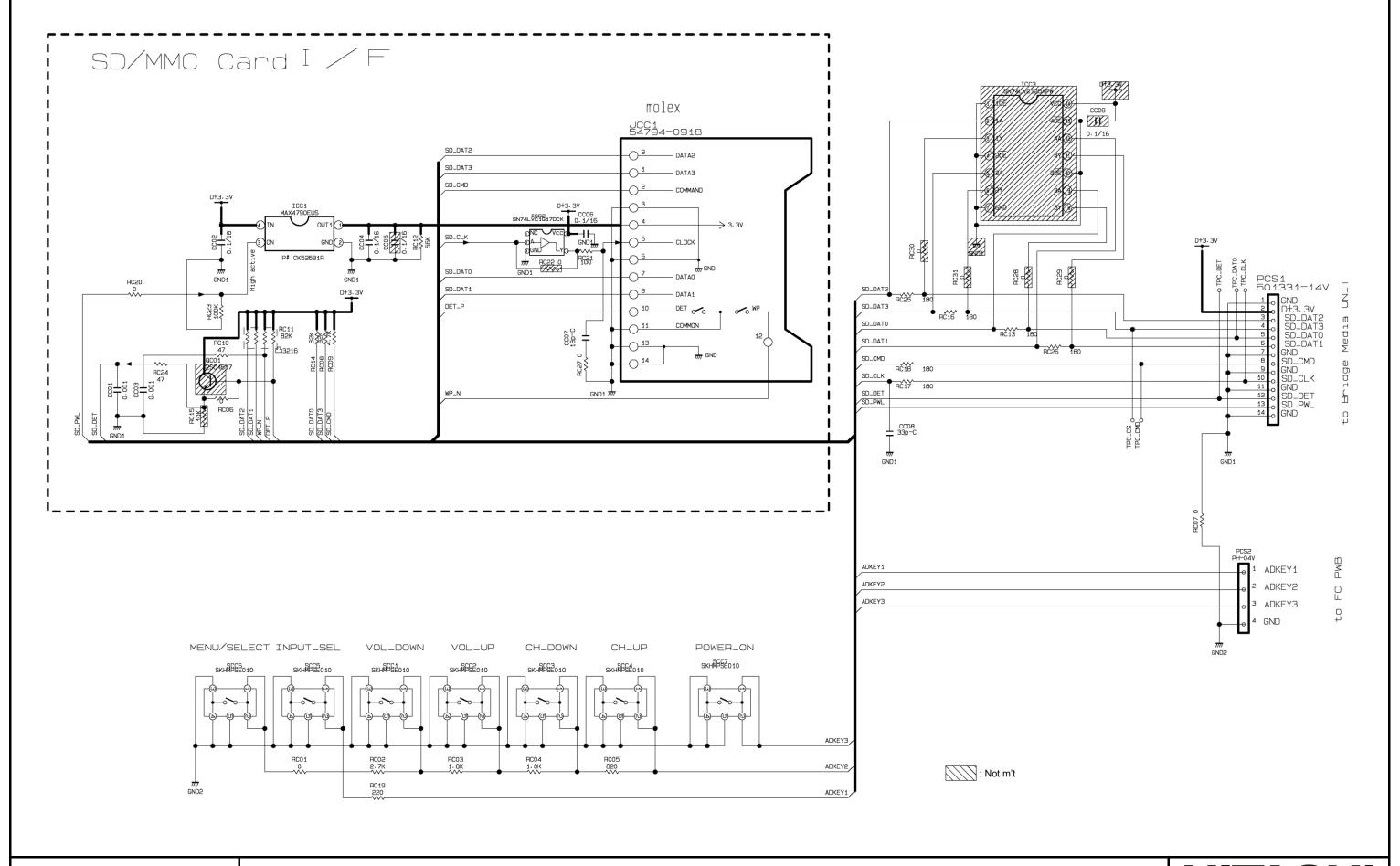




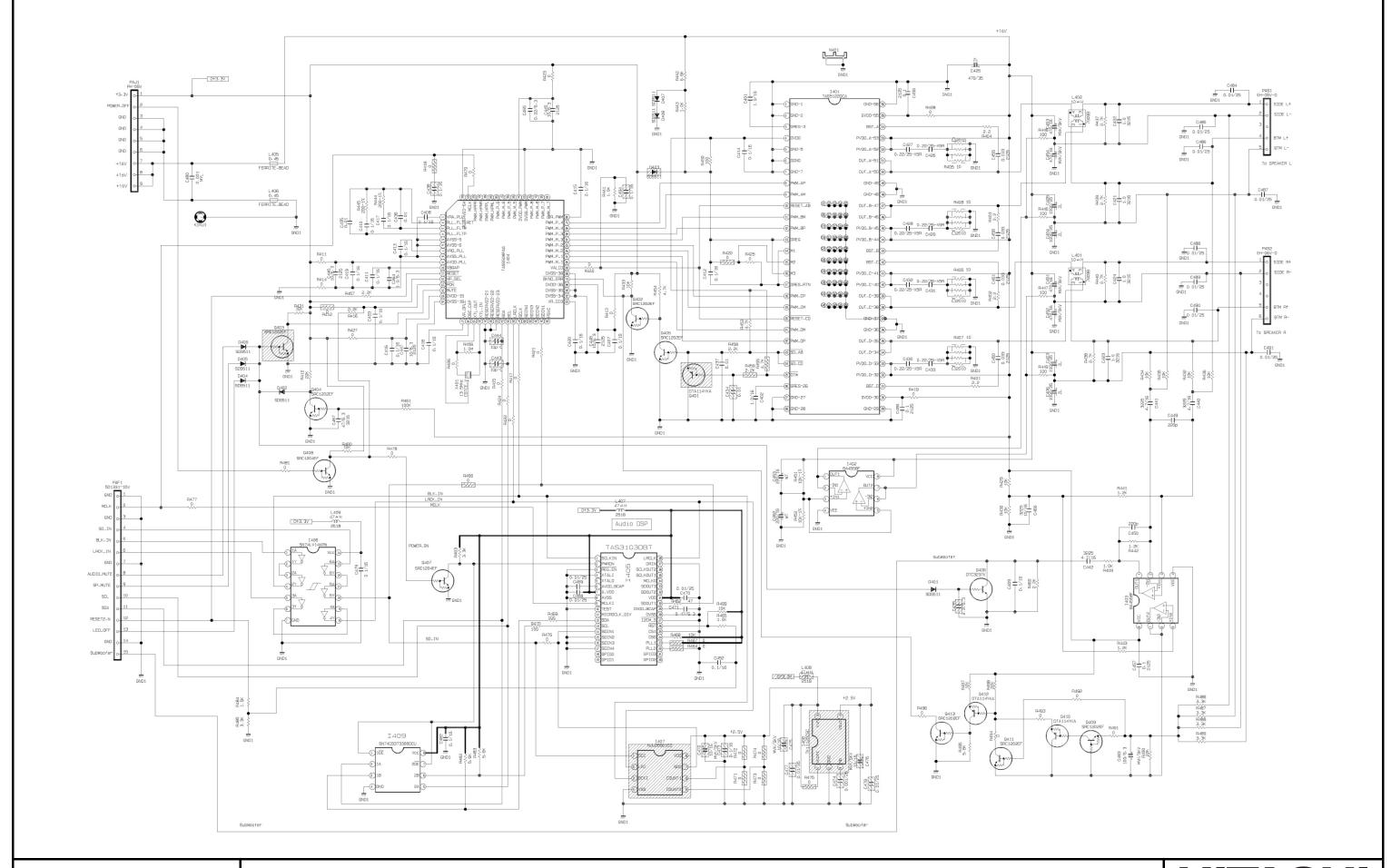
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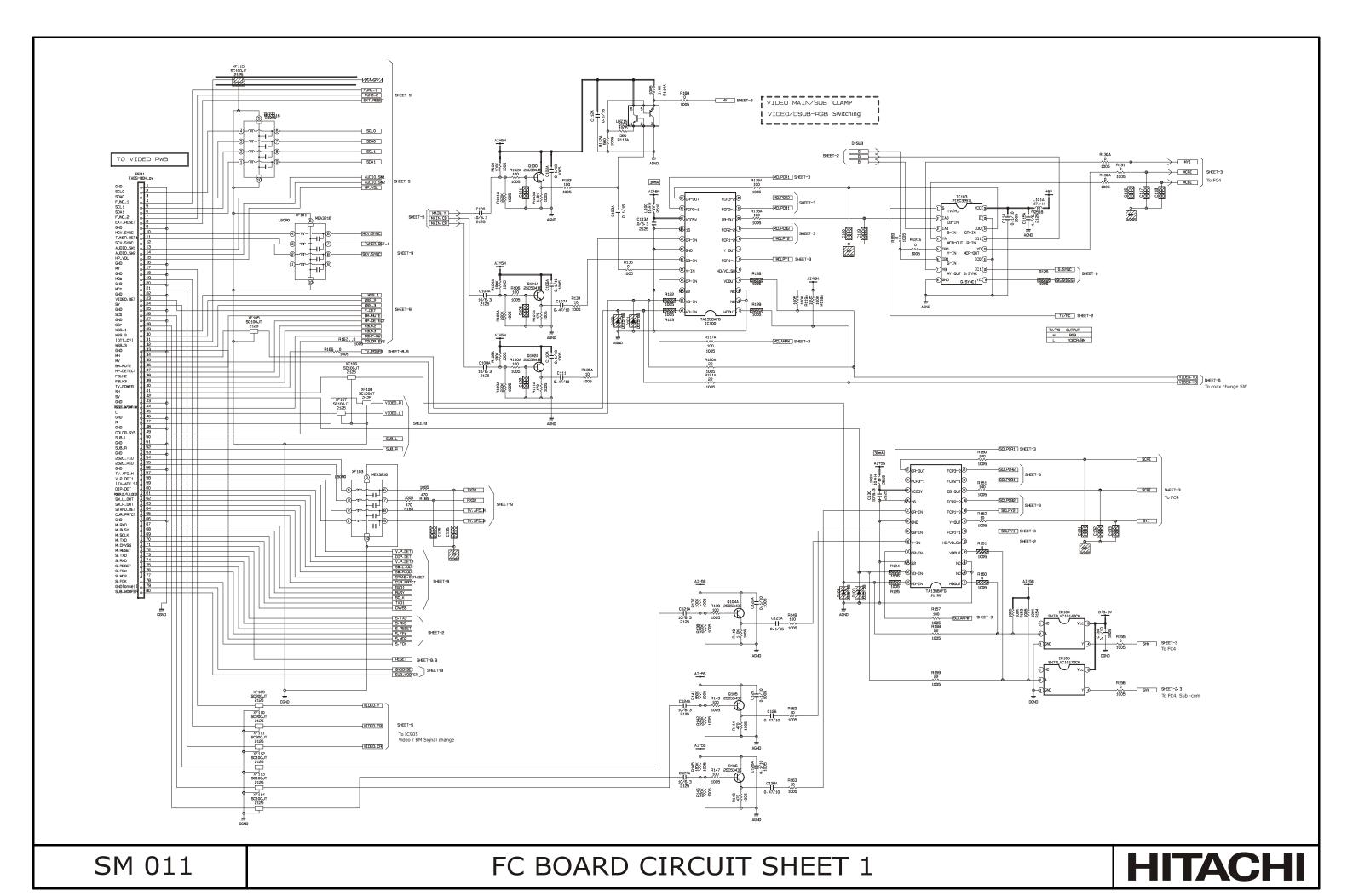


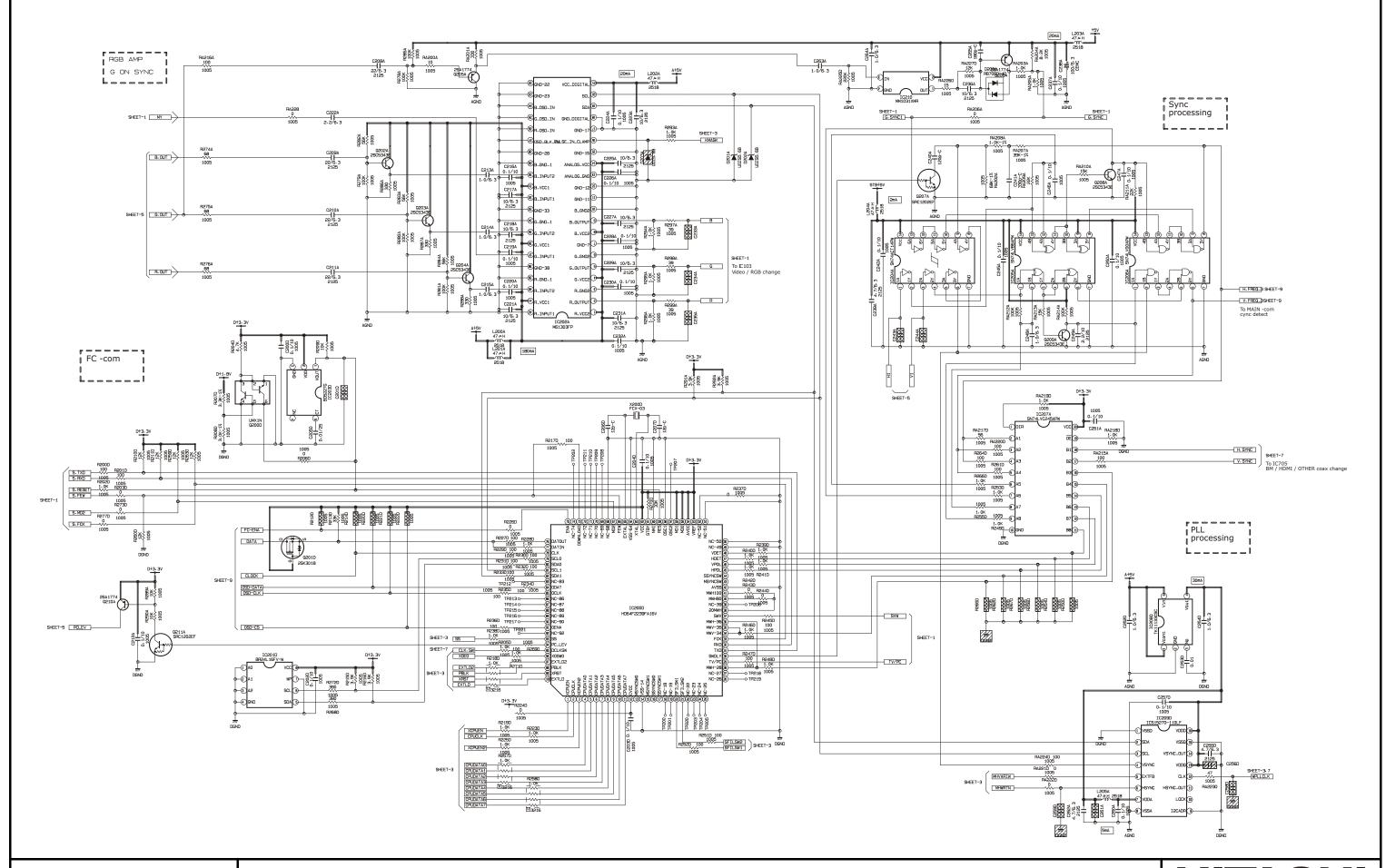
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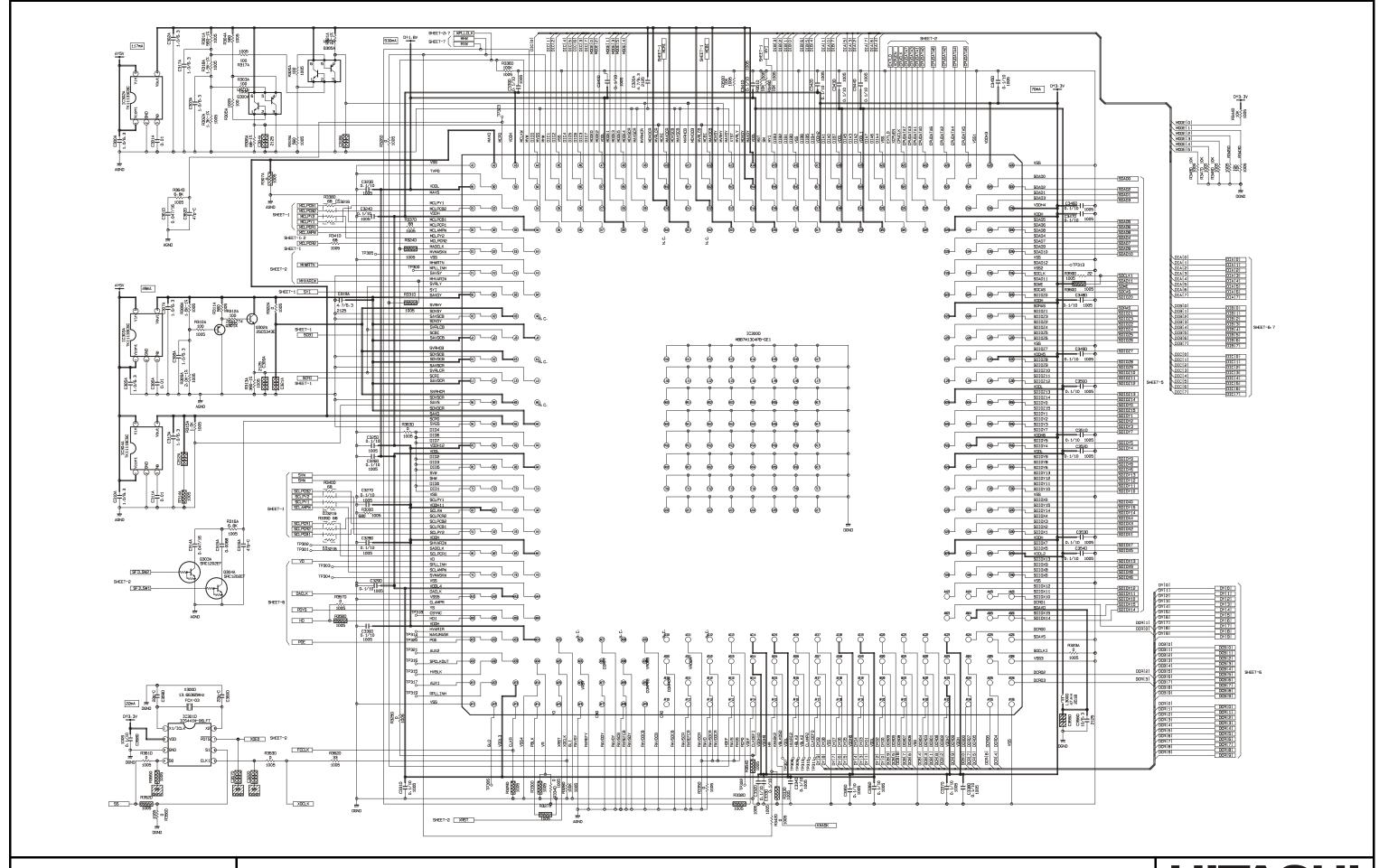


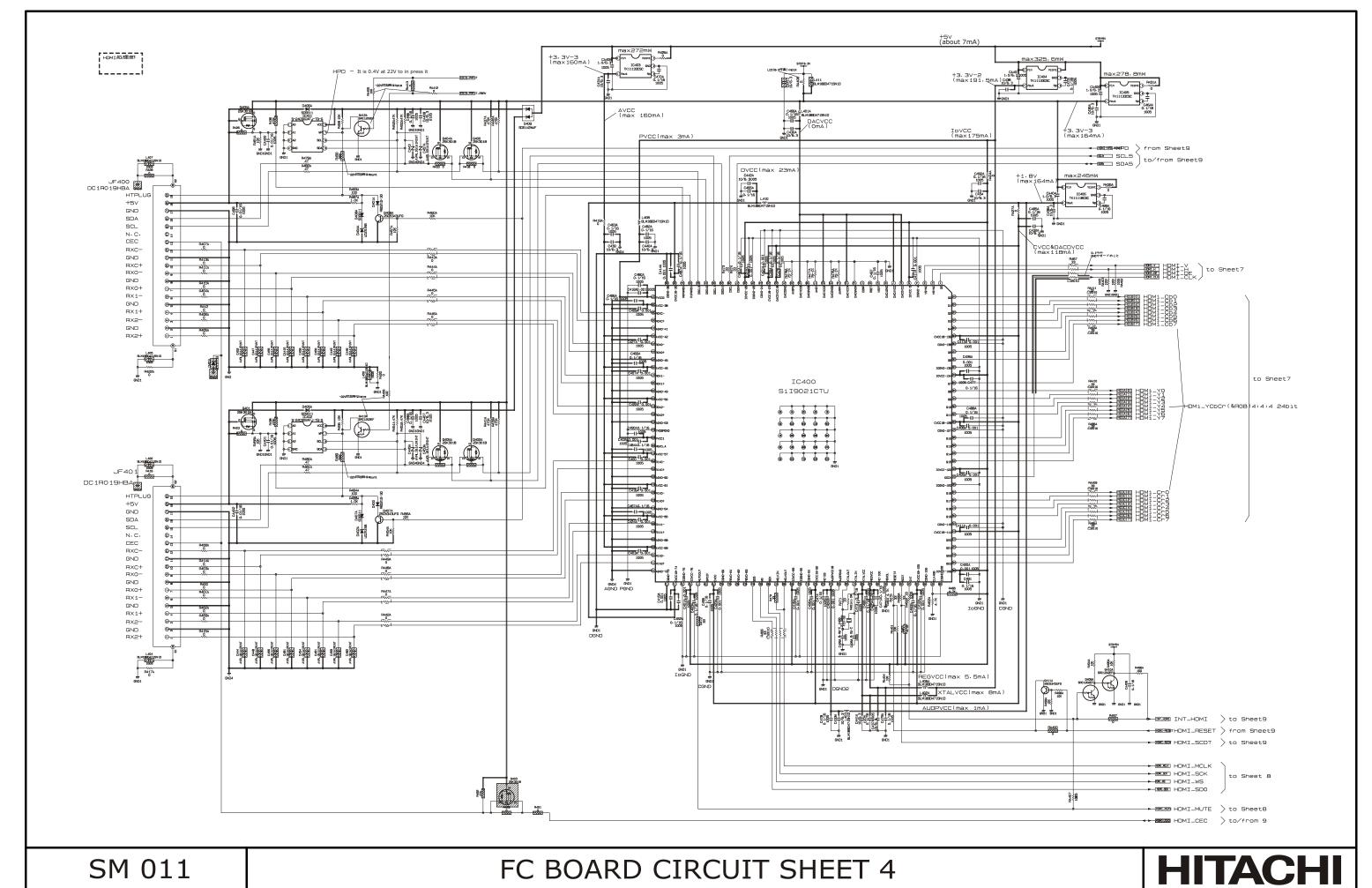
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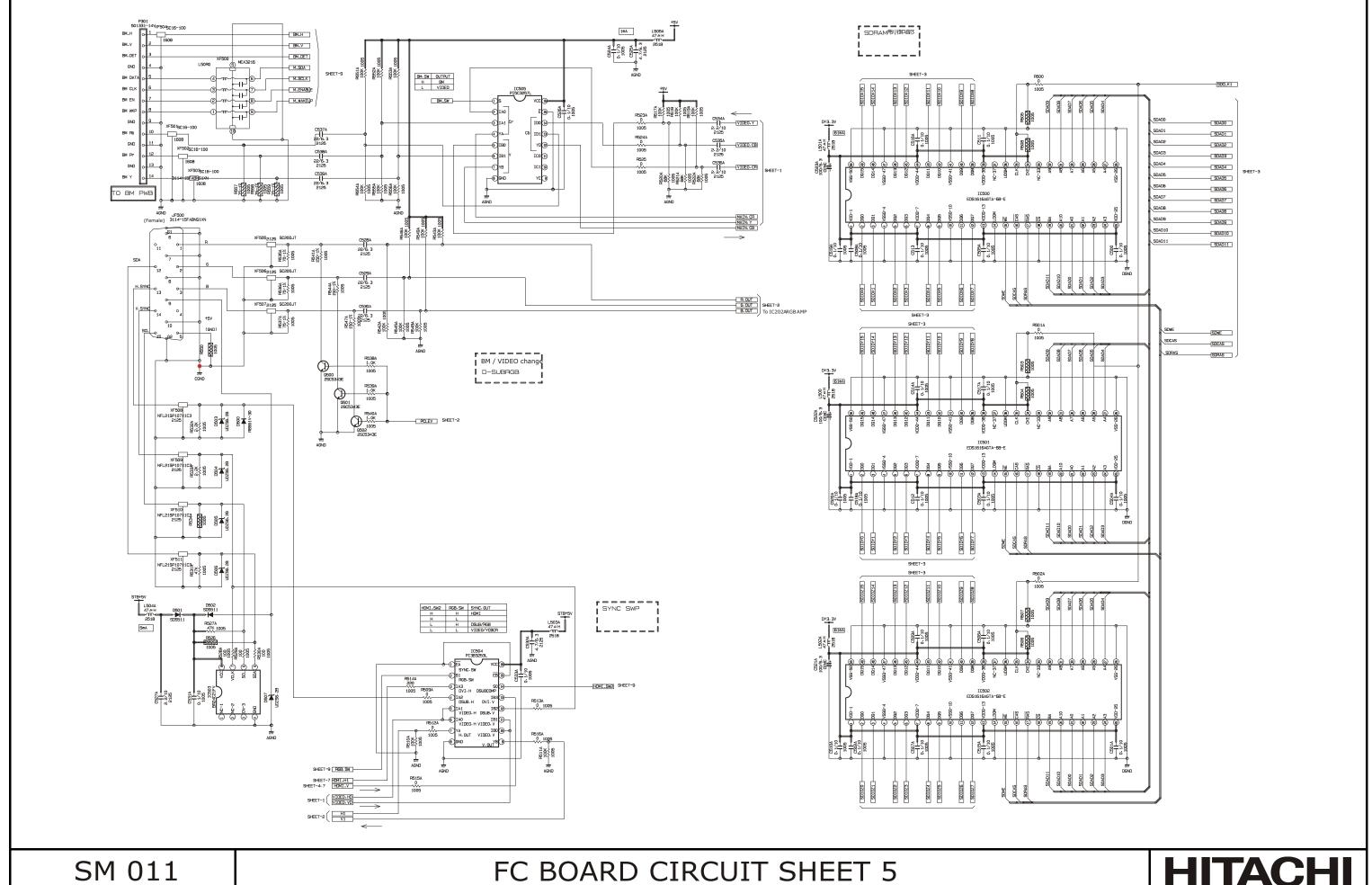


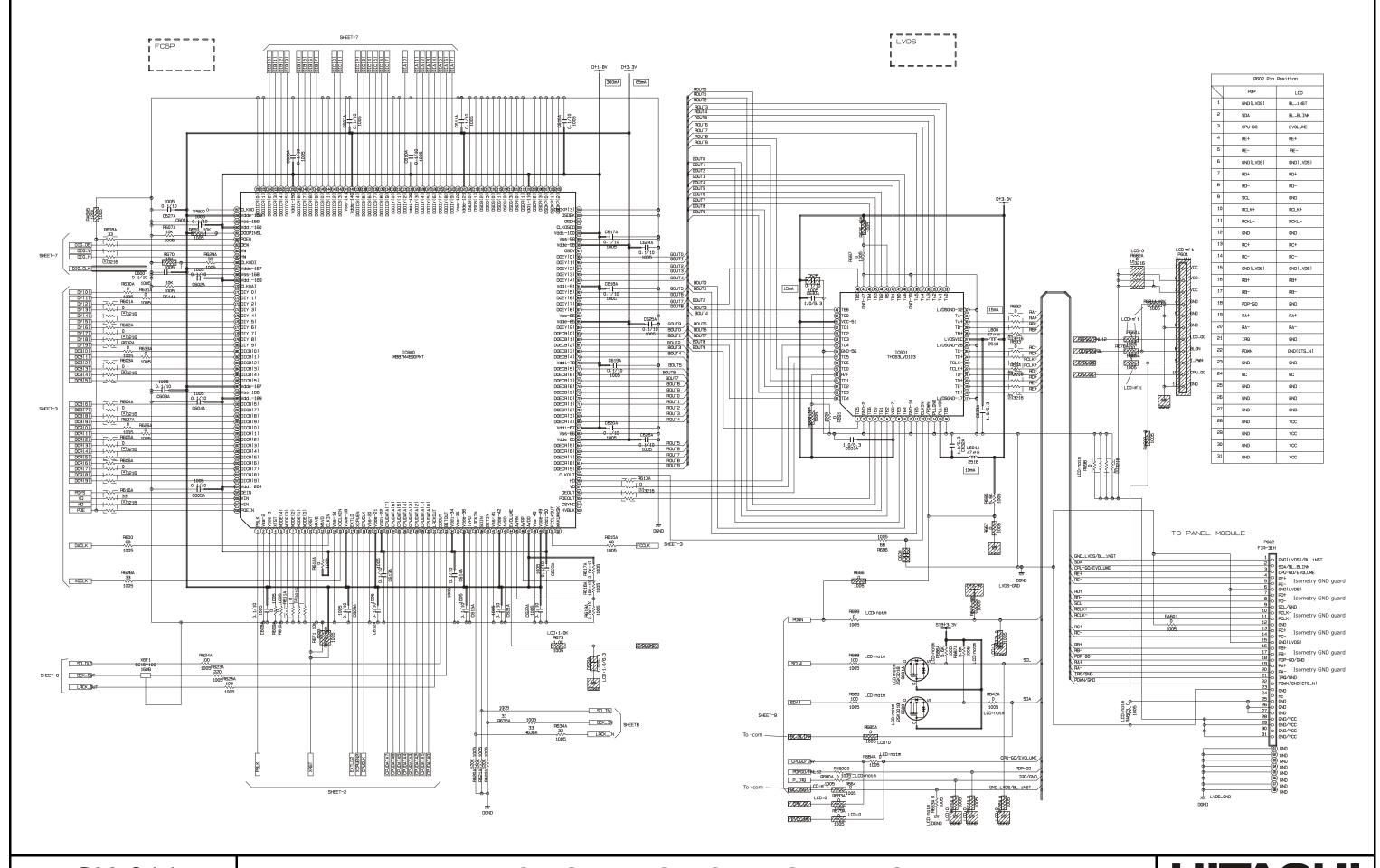


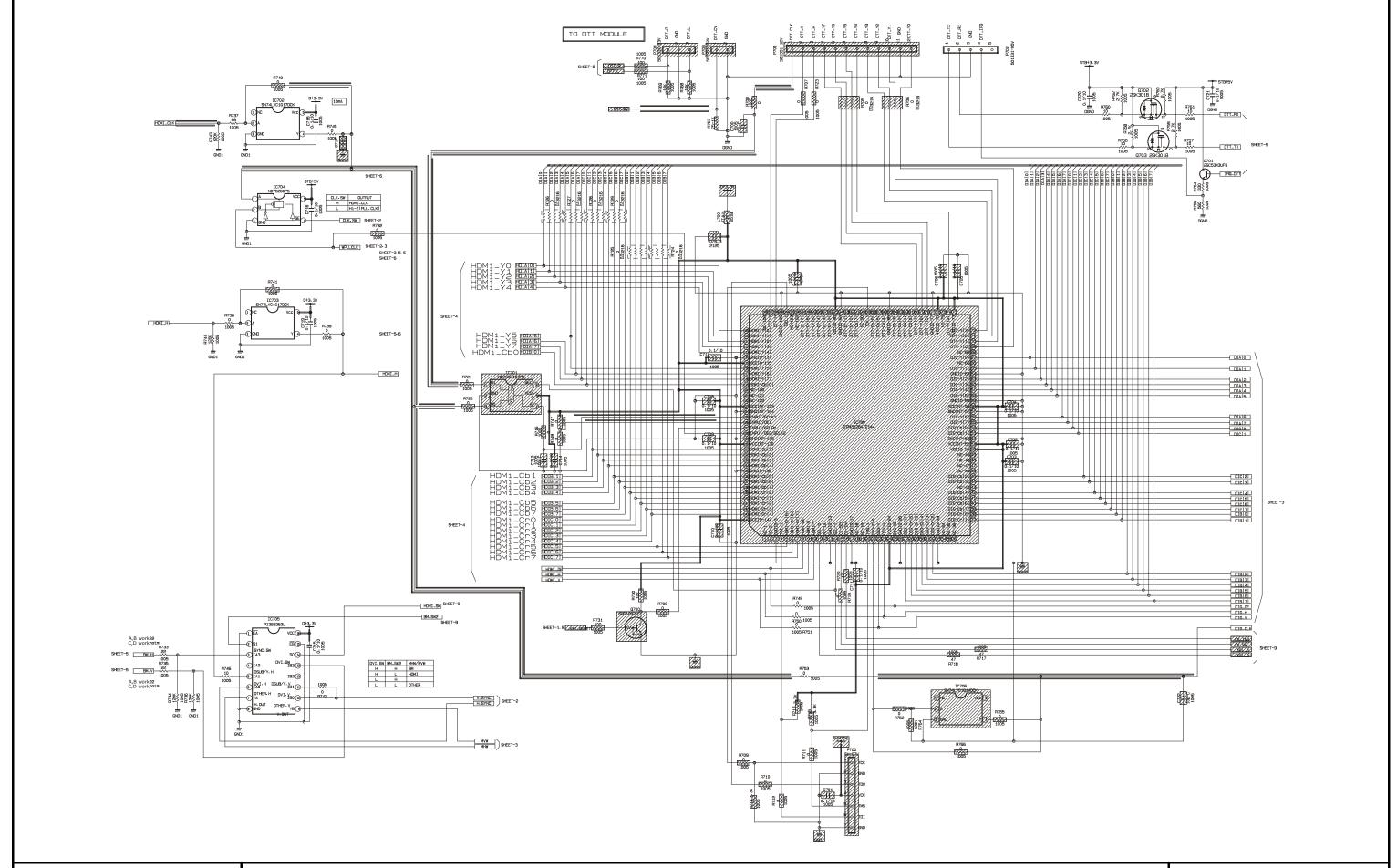


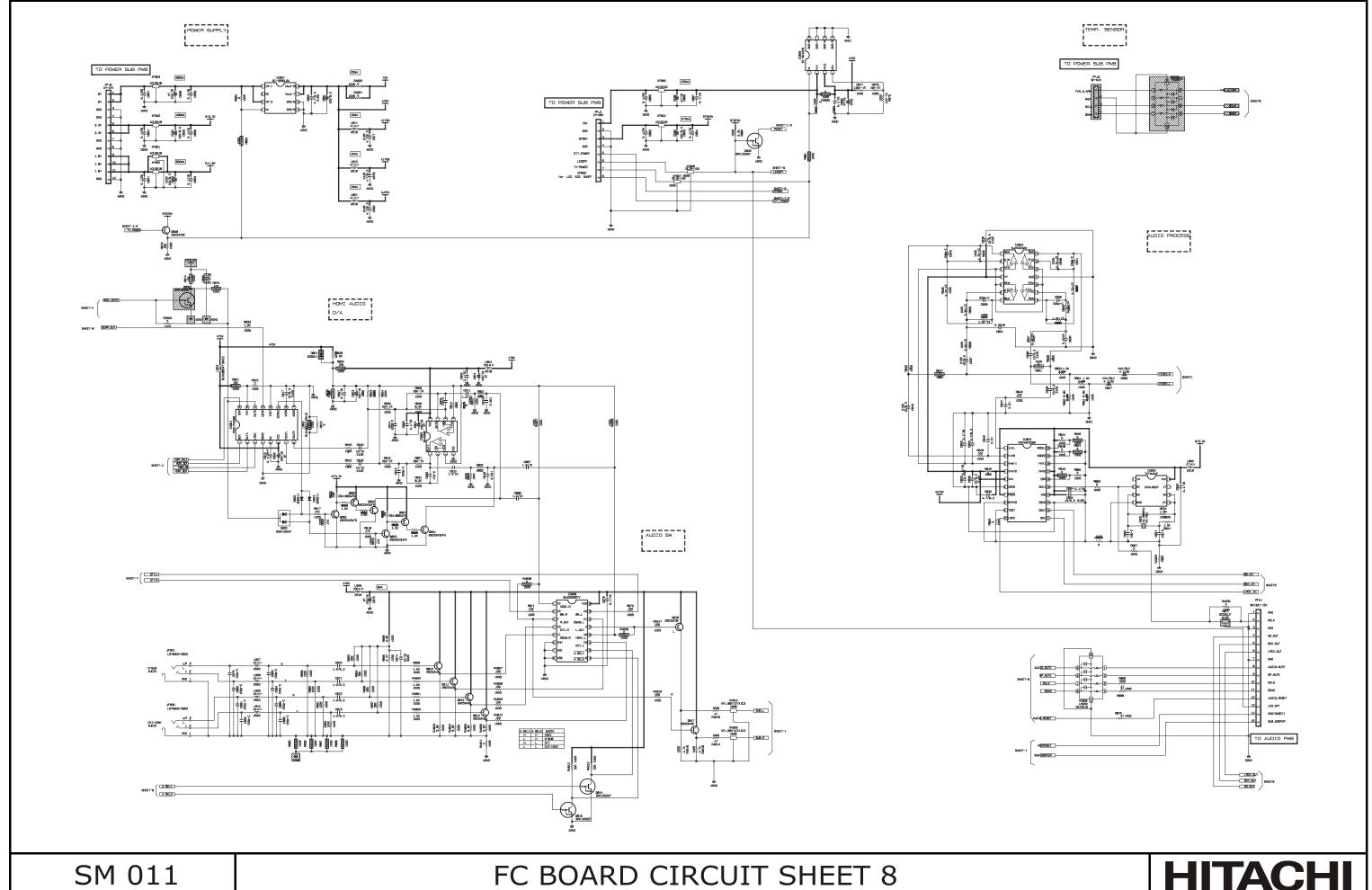


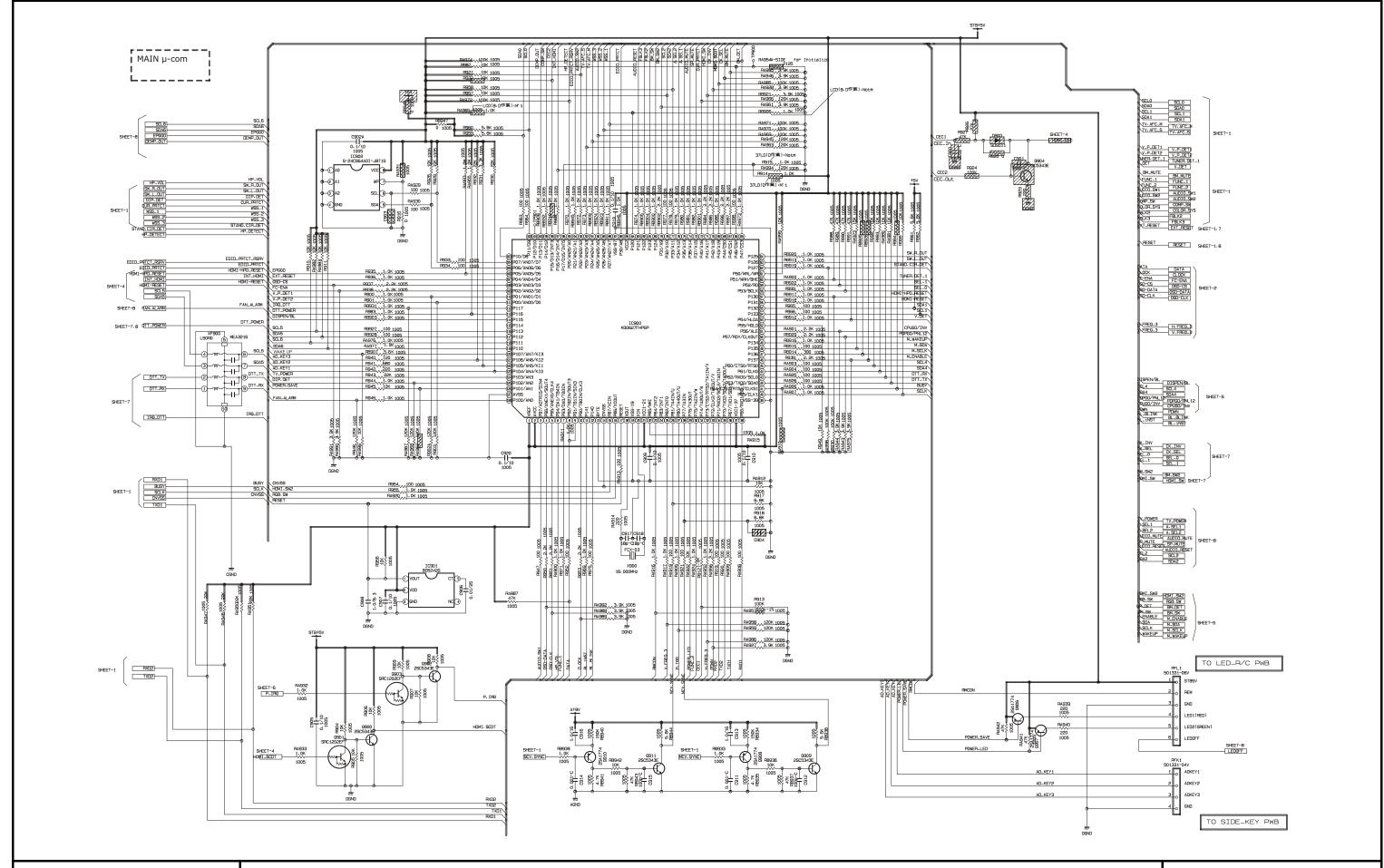


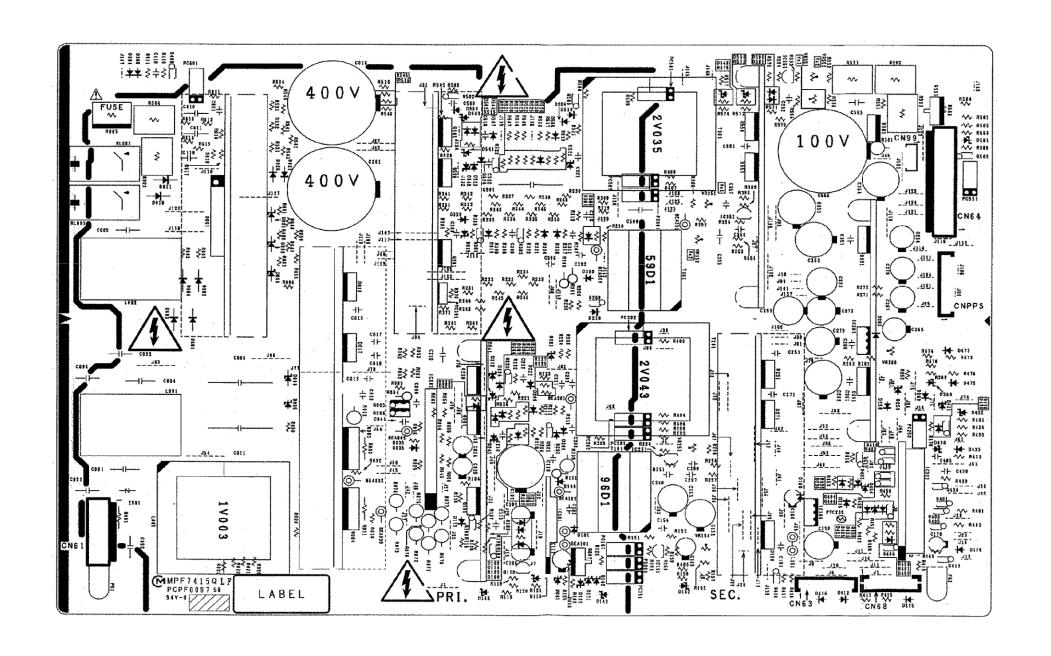


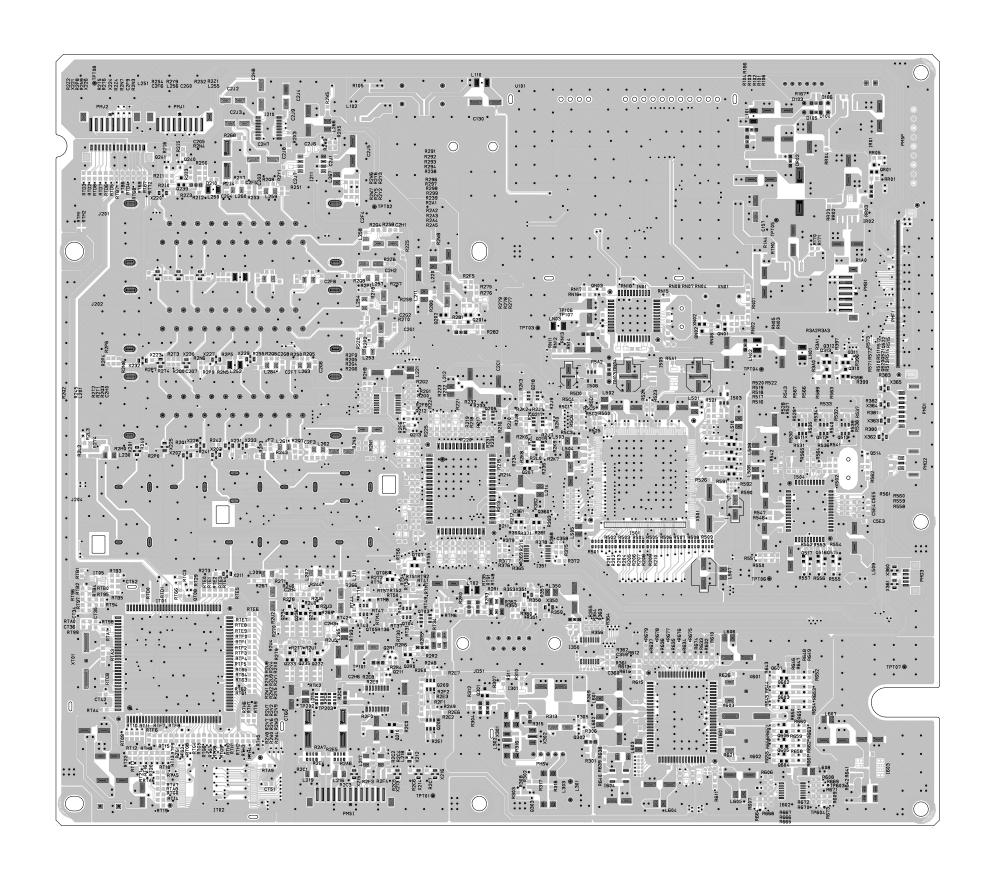


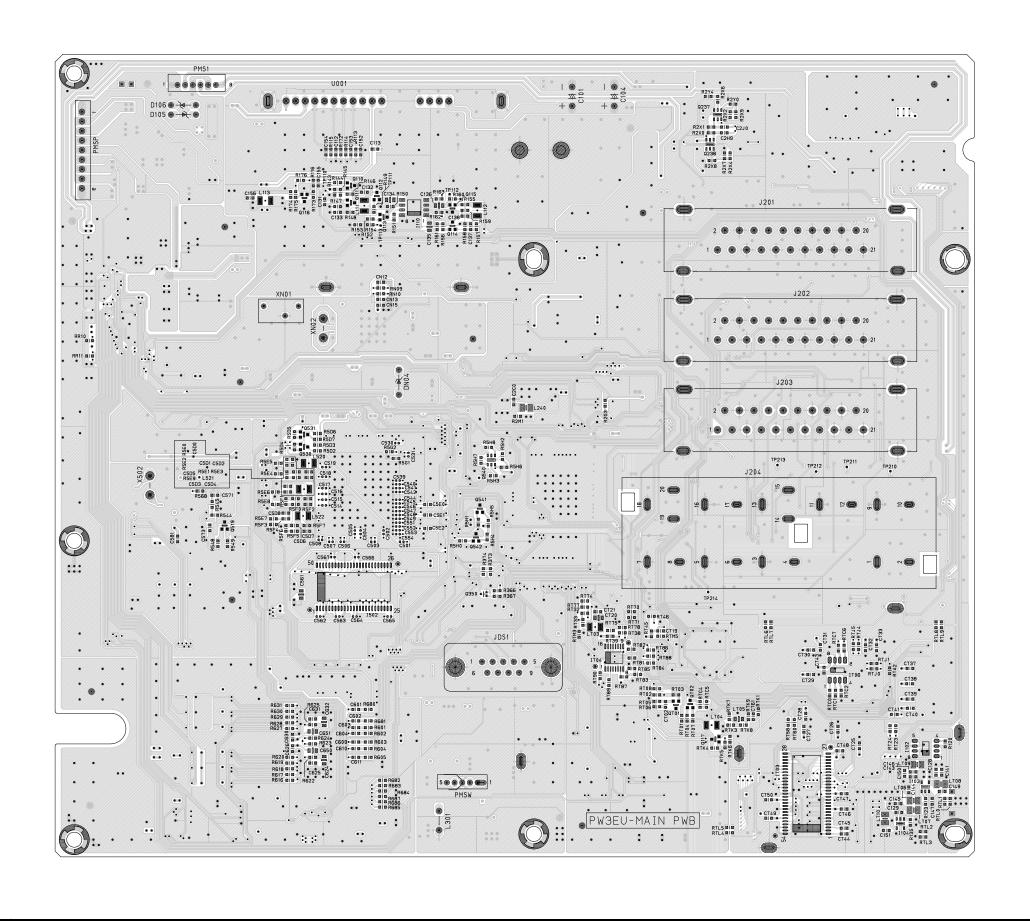


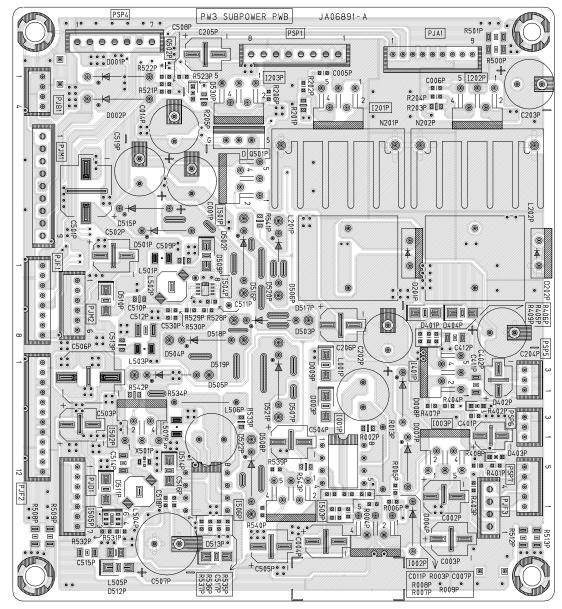




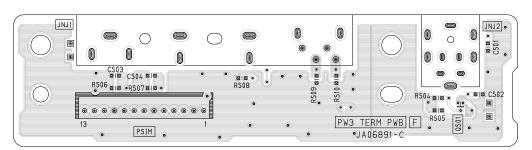




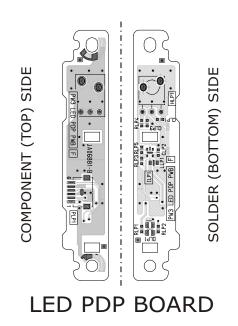


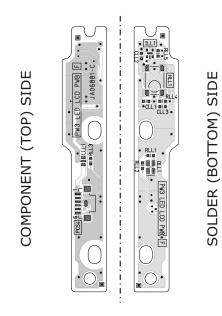


SUB-POWER BOARD COMPONENT (TOP) SIDE

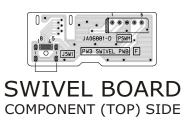


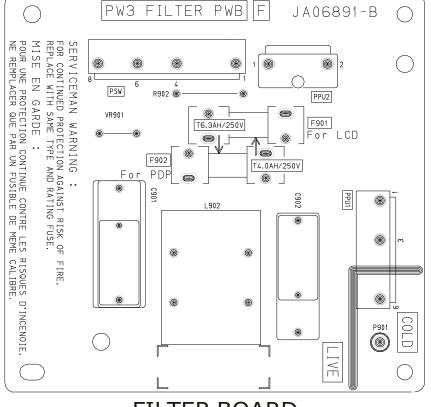
TERMINAL BOARD COMPONENT (TOP) SIDE





LED LCD BOARD

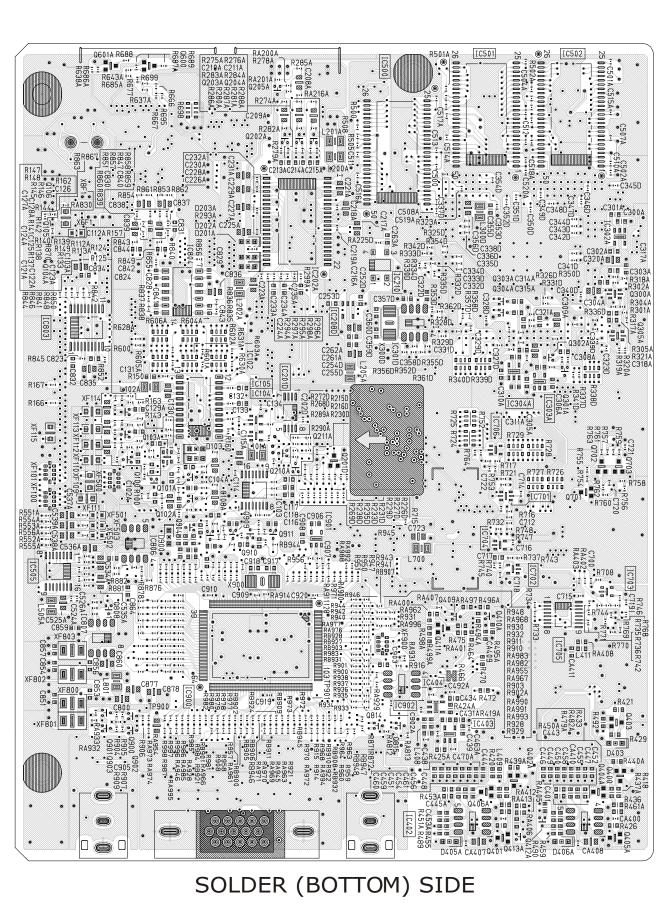




FILTER BOARD COMPONENT (TOP) SIDE

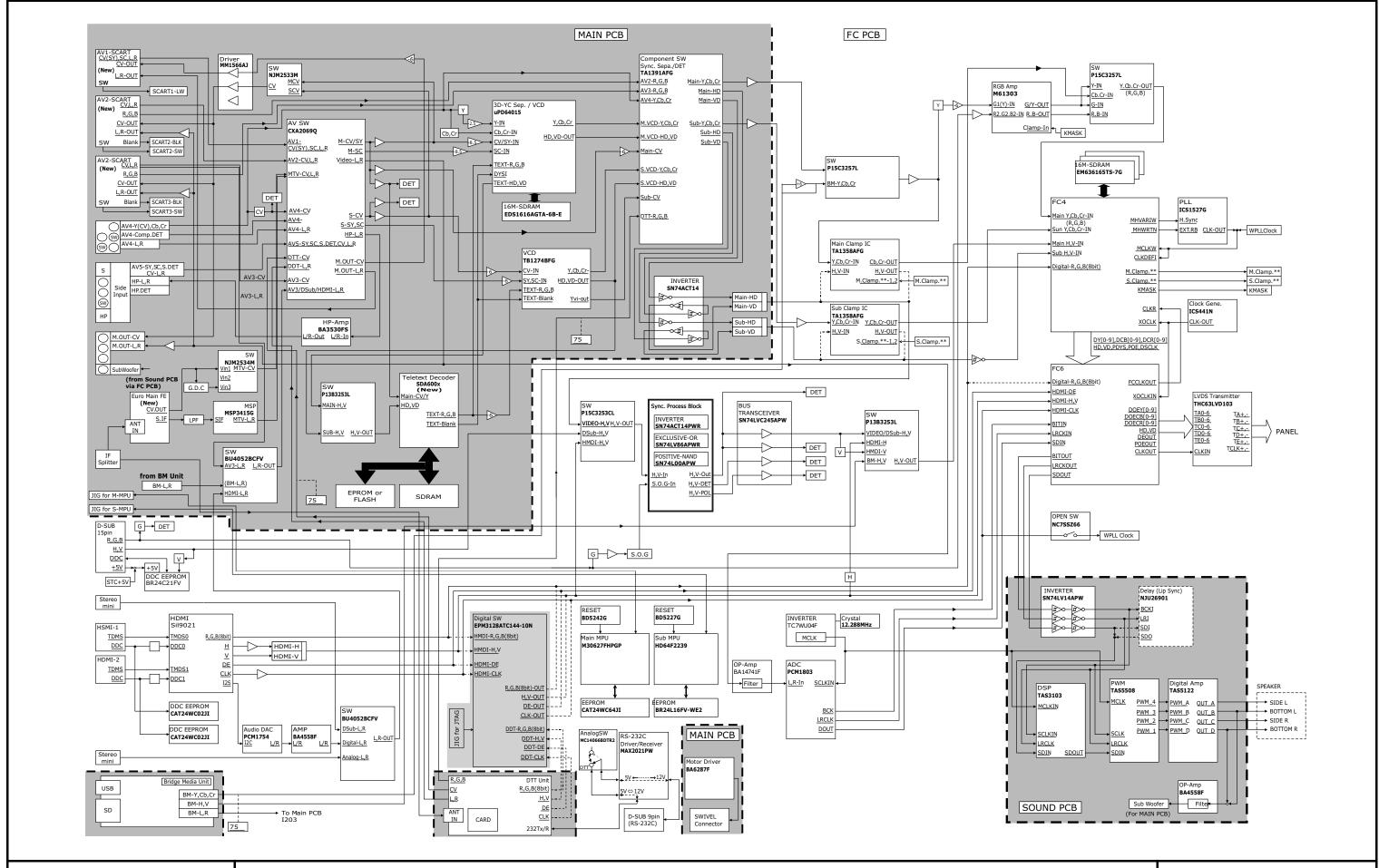
MISC. BOARDS





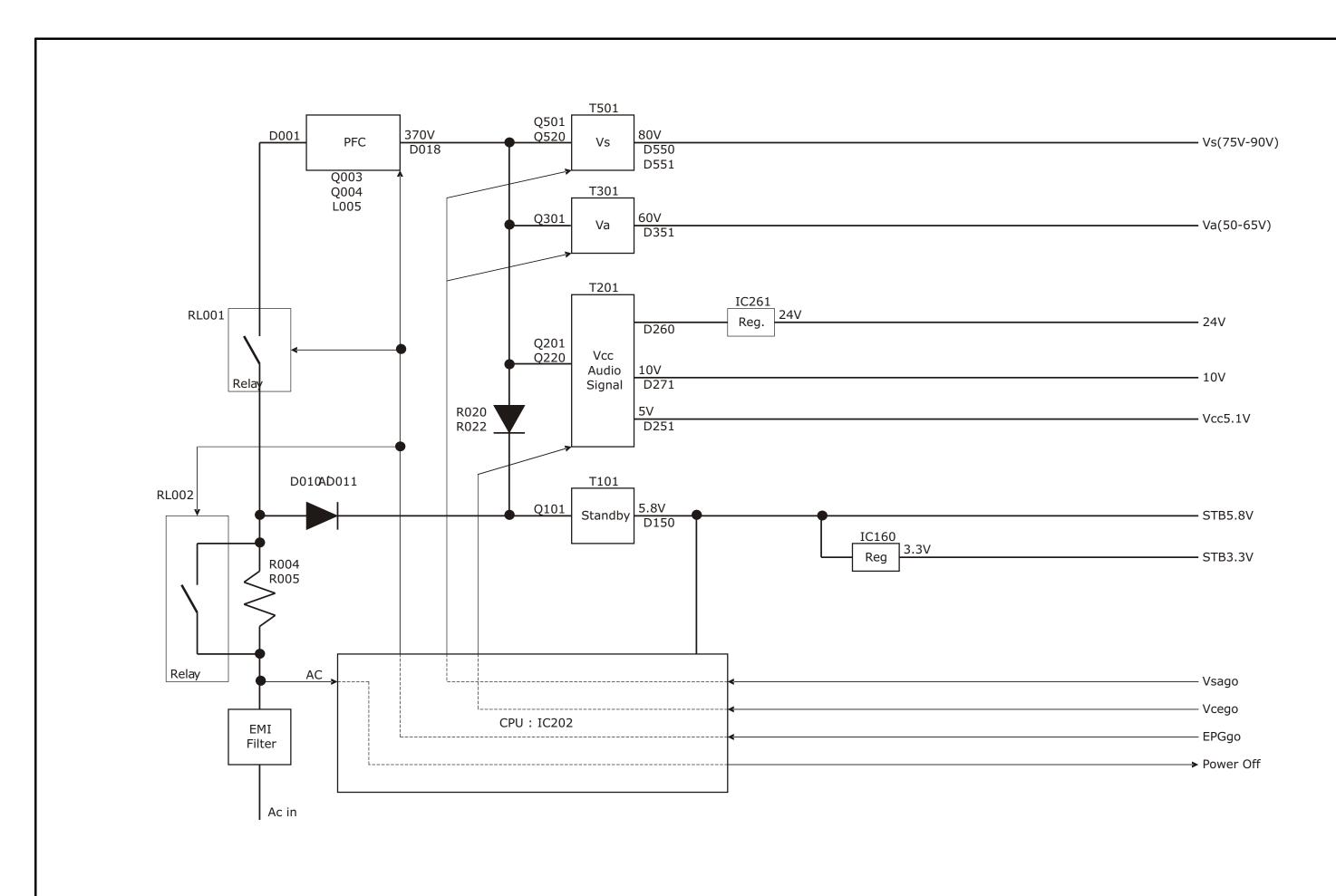
SOLDER (BOTTOM) SIDE

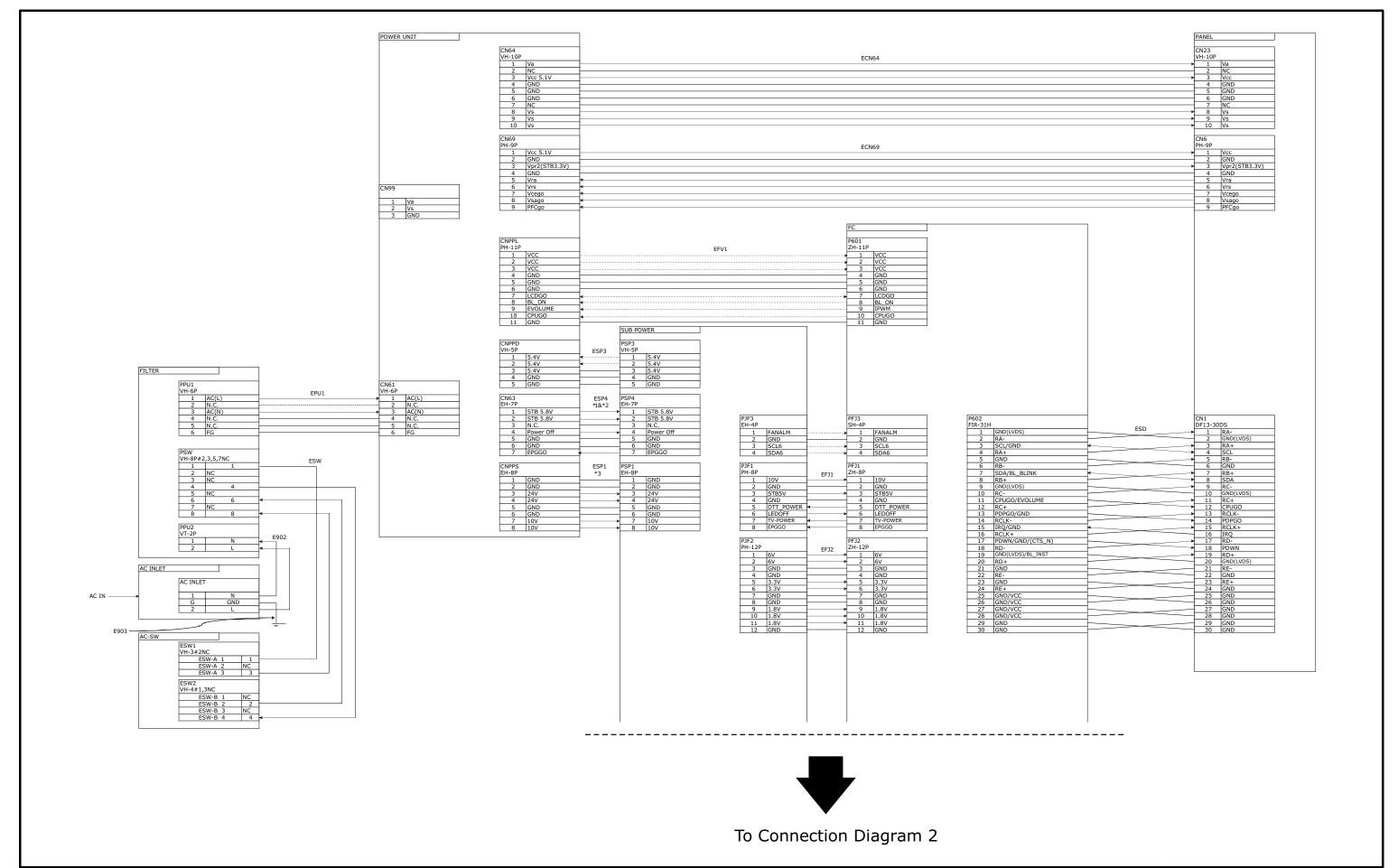
COMPONENT (TOP) SIDE

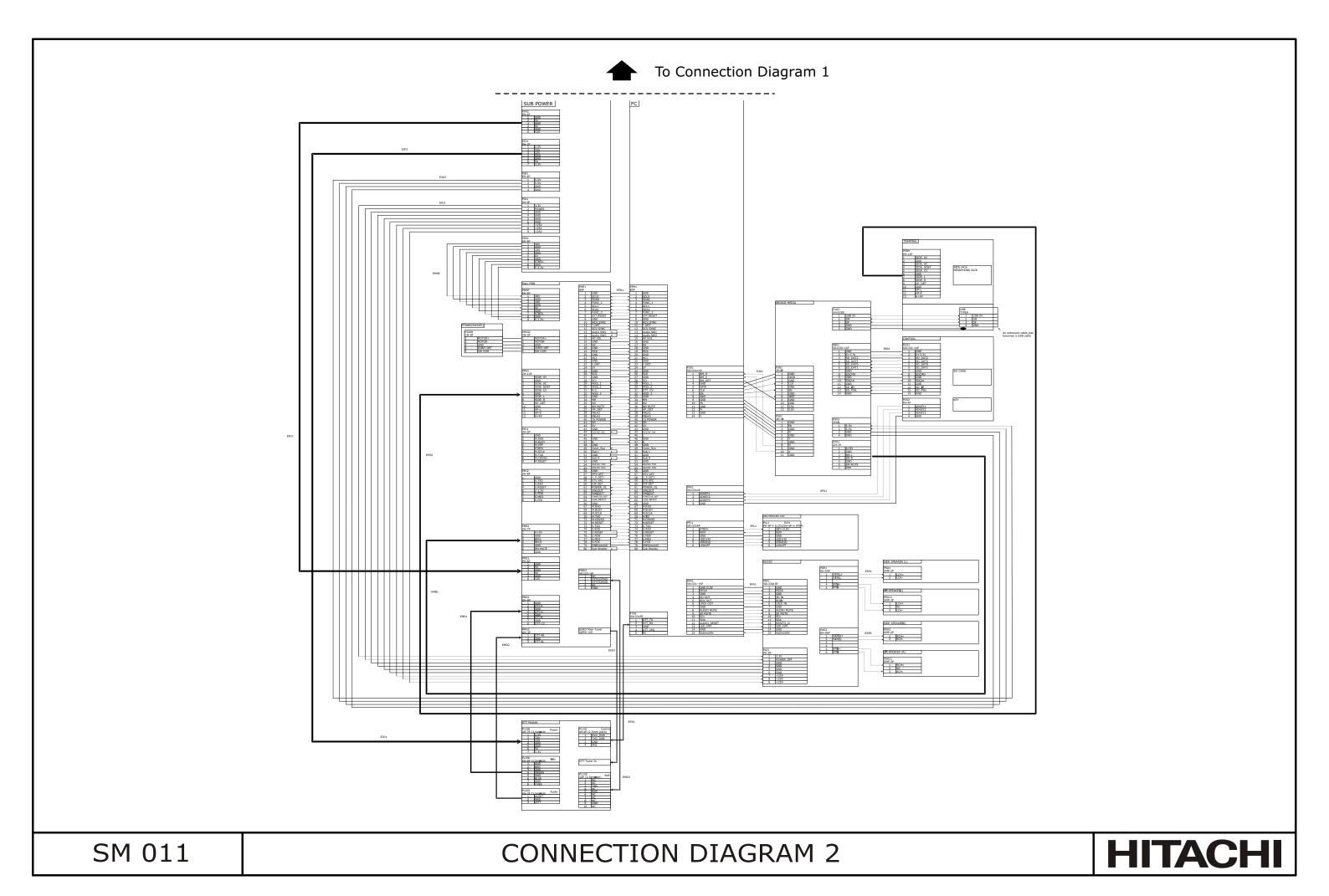


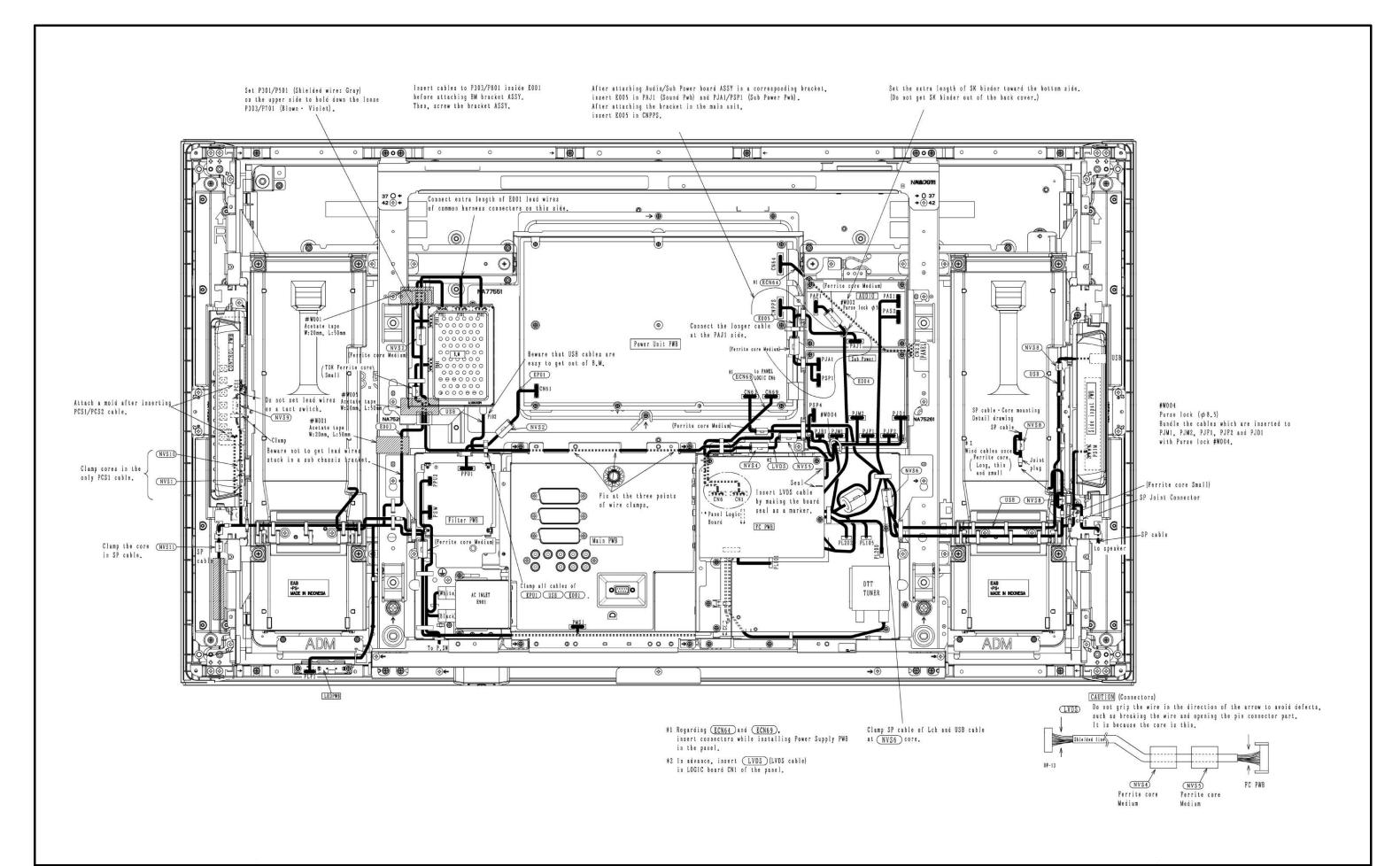
**BLOCK DIAGRAM** 

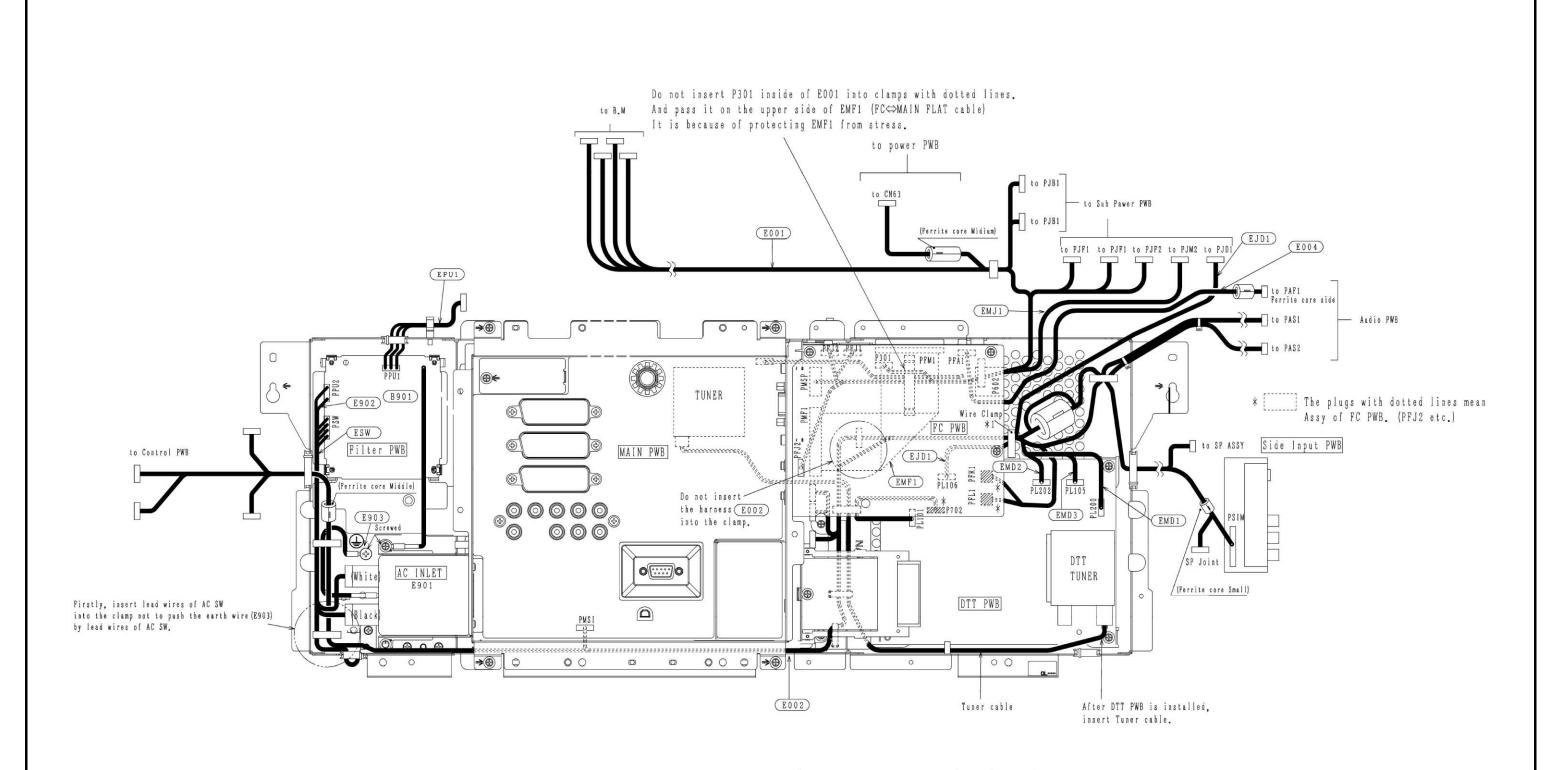






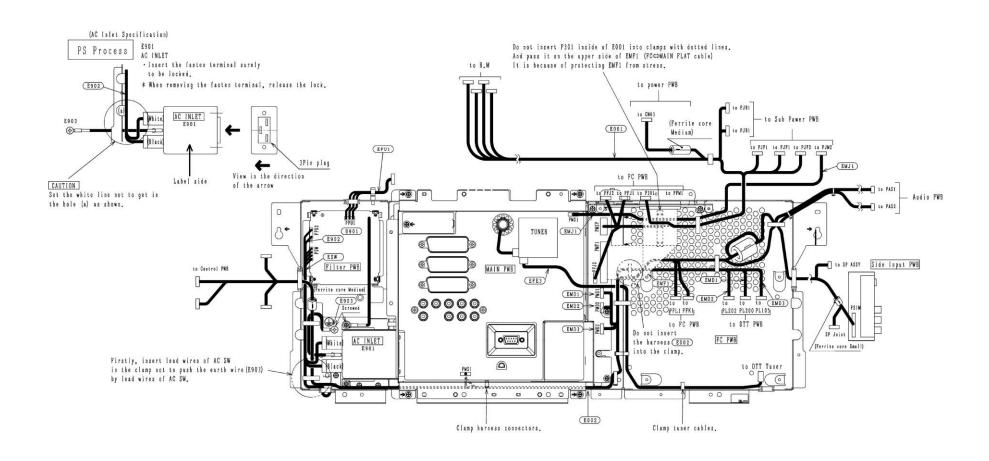


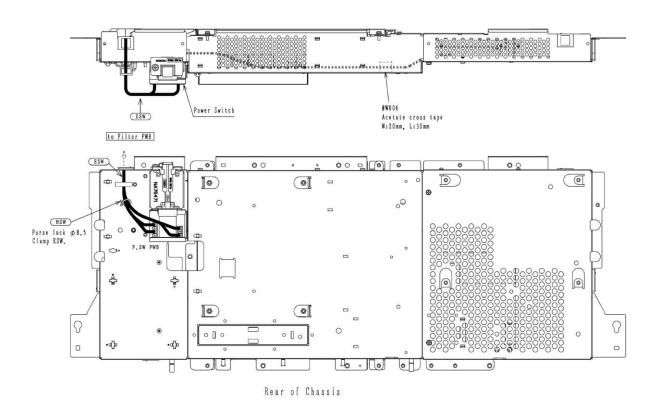




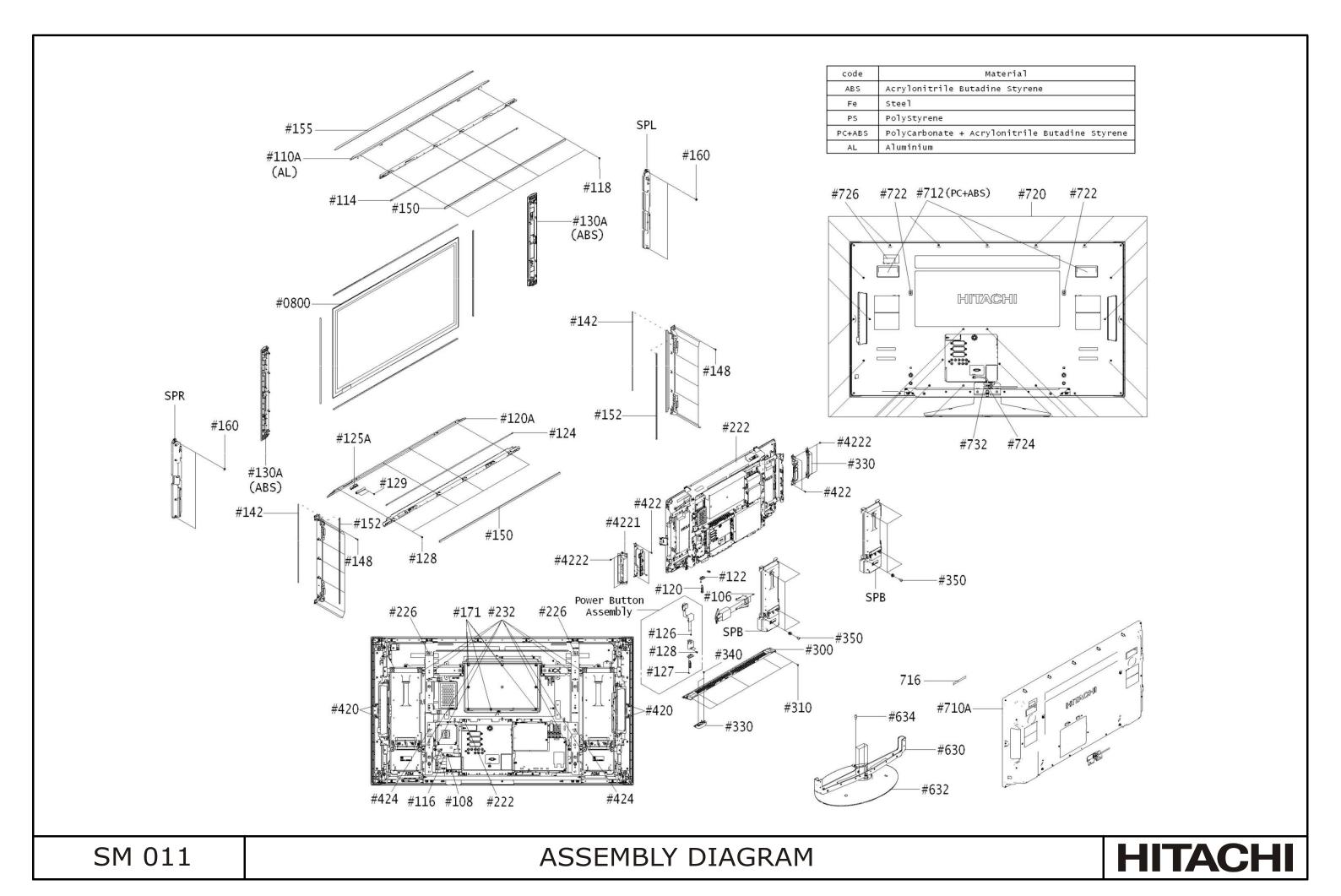
\* Insert connectors in P702/ PFL1/ PFK1 plugs while tilting FC PWB. And then, get in wire clamp (\*1).

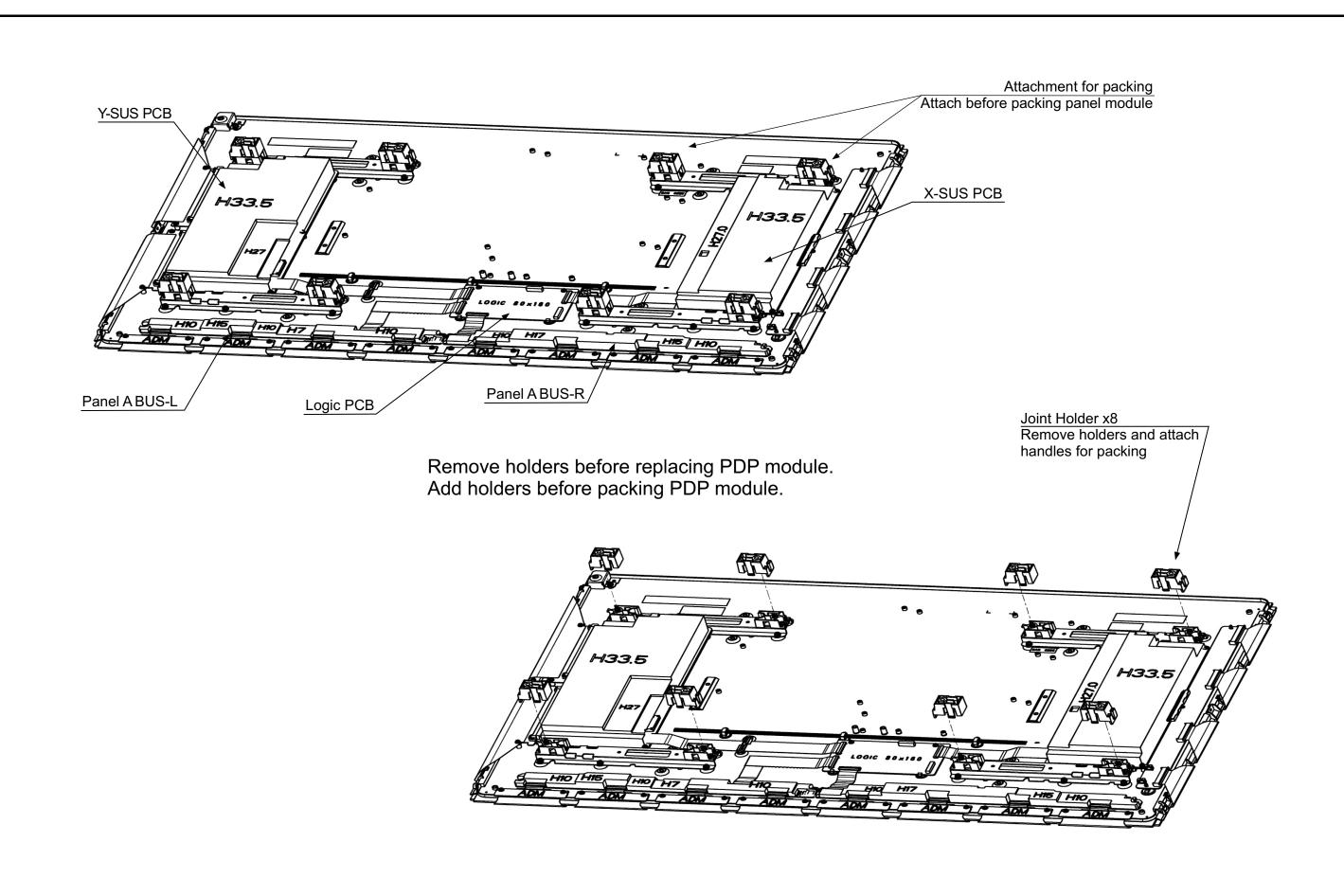
This means a connector plug, which is inside of FC PWB ASS.





WIRING ASSEMBLY DIAGRAM 3





## THE UPDATED PARTS LIST FOR THIS MODEL IS AVAILABLE ON ESTA

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